# TAFELN DER QUADRAT- UND KUBIKZAHLEN ALLER NATÜRLICHEN...

Jakob Philipp Kulik

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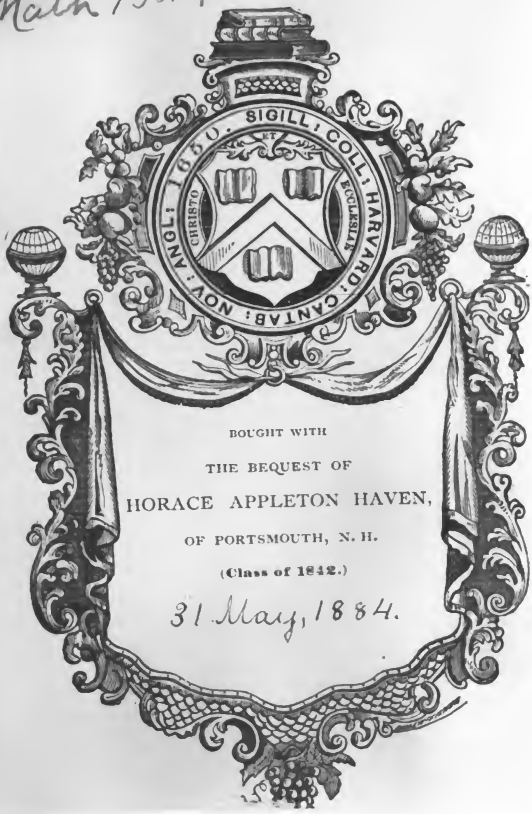
Math 738.48

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John Downes.

# Tafeln

der

# Quadrat- und Kubik-Zahlen

aller natürlichen Zahlen

bis

## Hundert Tausend,

nebst ihrer Anwendung auf die Zerlegung großer Zahlen in ihre Faktoren.

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Nach einer neuen Methode berechnet

von

**Dr. Jakob Philipp Kulik,**

öff. u. ord. Professor der höheren Mathematik an der k. k. Prager Universität und mehr. gel. Ges. Mitgliede.

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*— — honos erit huic quoque pomo*
*Et vos, o lauri carpam, et te proxima myrte*
*Sic positae quoniam suaves miscetis odores.*

Virgilii Eccloga II.

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Leipzig, 1848.

In Kommission bei Friedrich Fleischer, und für die österreichische Monarchie in Kommission bei Kronberger und Rziwnatz in Prag.

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VI, 3176
MAY 5 1924
Haven Fund.

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# Vorwort.

Die zweiten und dritten Potenzen dreiziffriger Zahlen sind fast in allen Sammlungen mathematischer Tafeln enthalten, jene der vierziffrigen Zahlen hat zuerst P. Guldin in seinem Werke: **De centro gravitatis Viennae 1635** bekannt gemacht, aus welchen sie nur noch mit neuen Fehlern in das mathematische Lexikon. Leipzig 1742, dessen Herausgabe Wolf zugeschrieben wird, übergangen sind: eine korrekte Ausgabe der Quadrat- und Kubikzahlen aller natürlichen Zahlen bis 10000 ist in dem Werke: **Manuel d'Architecture, ou principes des operations primitives de cet art. Par Séguin ainé. Paris 1786** enthalten. Eine stereotypirte Ausgabe der Quadratzahlen bis 27000 und der Kubikzahlen bis 24000 wurde im Jahre 1839 bei der J. A. Barth'schen Buchhandlung in Leipzig vom D. G. A. Jahn besorgt, in welcher auch die Quadrat- und Kubikwurzeln aller Zahlen bis 25500, anfangs in 4 und von der Zahl 10010 an, in 5 Dezimalstellen vorkommen.

Bekannt ist der Gebrauch dieser Tafeln bei Erhebung der Zahlen zu höheren Potenzen und bei Bestimmung der Quadrat- und Kubikwurzeln aus großen Zahlen: man kann sie aber durch eine Hülfstafel, welche die Vielfachen der Ludolph'schen Zahl $\pi$ und ihres reziproken Werthes $\pi^{-1}$ enthält, auf alle Aufgaben in

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Anwendung bringen, bei welcher die Rektifikation und Quadratur des Kreises, die Komplanation und die Kubatur der Kugel und des Sphäroides ins Mittel tritt. Allein die wichtigste Anwendung dieser Tafeln findet erst in der unbestimmten Analytik einen Platz: die Auflösung der unbestimmten Gleichungen des zweiten und dritten Grades, läßt sich mit Hülfe derselben ganz einfach herleiten, und eine unmittelbare Folge dieses Verfahrens ist die rein praktische Lösung der berühmten Aufgabe von der Zerfällung großer Zahlen in ihre Faktoren, auf welche bereits die größten Mathematiker ein Euler, Lambert, Lagrange, Legendre und Gauß ihren Scharfsinn verwendet haben, und gerade hier leisten die Tafeln der Quadrat- und Kubikzahlen die ersprießlichsten Dienste.

Ich habe in den Sitzungen der mathematischen Klasse der k. böhm. Gesellschaft der Wissenschaften am 24. März und am 22. April 1841 über diese von mir erfundene Methode einen Aufsatz gelesen, welcher unter den Erläuterungen am Ende des Werkes im Auszuge erscheint. Mittelst dieser Ausschließungsmethode wird der größte Theil der Quadratzahlen, deren Summe oder Unterschied eine vorgelegte Zahl nicht geben kann, ohne alle Rechnung nur mit Beihülfe einiger wenigen Tafeln vom mäßigen Umfange sogleich entfernt, so daß sich hiedurch die Anzahl der zu prüfenden Quadratzahlen auf ihren hundertsten, ja sogar auf ihren tausendsten Theil reduzirt. Um die Vorzüge dieser Methode vor anderen bisher bekannt gewordenen in das gehörige Licht zu stellen, habe ich ihre Brauchbarkeit auch an solchen Beispielen gewiesen, welche von andern Mathematikern gewählt, aber auf einem weitläufigeren Wege gelöset wurden.

Wird nun durch die vorbenannte Aufgabe der Gebrauch der Tafeln für Quadrat- und Kubikzahlen mannigfaltig erweitert; so ist doch kaum zu zweifeln, daß noch anderweitige Anwendungen derselben im Schoße der Zukunft verborgen liegen, deren Aufdeckung unseren Nachkommen anheim fällt: weil denn doch eine Wahrheit

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desto öfters in Anwendung kommt, je einfacher sie ist, und je inniger sie an die ersten Gründe der mathematischen Erkenntnisse sich anschließt; nun braucht man aber die Elemente der Arithmetik nicht zu überschreiten, um von der Entstehung, Beschaffenheit und leichten Anwendbarkeit, dieser Art Zahlen einen klaren Begriff zu erhalten, und man verschafft sich beim weiteren Studium der Mathematik leicht die Ueberzeugung, daß wohl viele Rechnungsoperationen, mittelst welcher der Uebergang von der Theorie zur Praxis, oder von der reinen Erkenntniß alles Meßbaren zu dessen Anwendung auf die mannigfachen Fälle und Zwecke des bürgerlichen Lebens geschieht, auf Quadrat- und Kubikzahlen, als ihre Elemente zurückgeführt werden können. Zahlreiche Belege dieser Behauptung wird man in den mit großen Zahlen ausgeführten Rechnungen am Ende dieses Werkes vorfinden, unter denen ich zum Frommen der Physiker und Geologen das Resultat einer derselben hier hervorzuheben mir erlaube.

Ein Mittel aus der mit großen Kosten in Frankreich, Ostindien und Ostpreußen von den größten Geometern unserer Zeit ausgeführten Gradmessungen, liefert für den Halbmesser des Aequators unserer Erde 3362280, und für die halbe Erdaxe 3351009 Wiener Klafter, berechnet man hiernach die Oberfläche und den Kubikinhalt der erstlich als kugelförmig und dann als sphäroidisch angenommenen Gestalt des Erdballes, so zeigt sich die Oberfläche

| | | |
|---|---|---|
| der kugelförmigen Erde | 141 585681 543478 | W. Q. K. |
| „ sphäroidischen „ | 141 744527 358955 | „ |
| mithin ist diese um | 158845 815477 | W. Q. K. |

oder um 9928 Quadratmeilen größer als jene: ferner ergibt sich der Kubikinhalt der kugelförmigen Erde, wenn man den Flächeninhalt eines Meridianes mit $^2/_3$ des Erddurchmessers multiplizirt gleich

158 417376 463269 185792 W. Kub. K

und jener der sphäroidischen Erde 158 683568 389730 192683 „

also ist abermals die

letztere um 266191 926461 006891 „

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oder um 4159249 Kubikmeilen größer als erstere; hiebei ist aber der Inhalt der vielen Bergzüge, die doch sämmtlich aus dem Schoße der Erde mit der Zeit emporgestiegen sind, nicht in Anschlag gebracht. Hieraus läßt sich schließen, daß die ursprünglich kugelförmige Erde durch eine während mehreren Jahrtausenden fortgesetzte Rotation sowohl an der Oberfläche als auch an ihrem Kubikinhalte zugenommen habe, und daß daher, wenn man mit Laplace annimmt, daß sich ihre Masse nicht geändert habe, ihre Dichtigkeit in einer fortwährenden Abnahme begriffen sei. *)

Ueberzeugt von dem Nutzen, welchen eine weiter ausgeführte Tafel der Quadrat- und Kubikzahlen bei Rechnungen mit großen Zahlen leisten dürfte z. B. bei der Leichtigkeit, mit der man mit Hülfe dieser Tafeln sogar zehnziffrige Zahlen in wenigen Minuten, zur zweiten oder dritten Potenz zu erheben vermag, daß man über die Menge der in so kurzer Zeit richtig bestimmten Ziffern unwillkührlich erstaunt, habe ich mich noch im Jahre 1817, da ich die Physik und die Astronomie zu Gratz in Steiermark lehrte, entschlossen, Tafeln dieser Art in einem größeren Umfange, als es bisher geschehen ist und nach einer neuen Methode zu berechnen, damit man, wie Lambert sagt, „ein für allemal für alle Fälle berechnet findet, was man künftig für jeden vorkommenden Fall berechnet zu haben wünscht." Seit etwa 30 Jahren besitze ich diese erweiterten Tafeln im Manuskripte, und ich hatte während dieser geraumen Zeit so manche Gelegenheit ihre Richtigkeit sowohl in einzelnen Rechnungen, vorzüglich aber bei ihrer Vergleichung mit den oben erwähnten Jahn'schen Tafeln, zu prüfen: allein die Veranlassung zu ihrer Bekanntmachung durch den Druck, ergibt sich erst jetzt, bei der bevorstehenden ersten fünfhundertjährigen Jubelfeier der Gründung und des Bestandes unserer Hochschule,

*) Diese Dichtigkeit beträgt zu Anfange des lauf. Jahrhunderts 0.998325, wenn man die ursprüngliche Dichtigkeit der Erde zur Einheit annimmt. Würden die Gradmessungen in folgenden Jahrhunderten, so weit es möglich ist, an den nämlichen Stellen der Erdfläche wiederholt, so ließe sich hiernach das Gesetz der Abname der Dichtigkeit, und somit auch das Alter der Erde bestimmen.

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weil dieſe, als Mutter ſo vieler Univerſitäten des Inn- und Auslandes, kein ſchicklicheres Angebinde erhalten kann, als eben ein lange vorbereitetes, und ſeiner Natur nach, tief durchdachtes literariſches Produkt, welches ſonſt bei unſern dermaligen Zeit- und Geldverhältniſſen wohl nie im Druck erſchienen wäre, ungeachtet die Schrift des Manuſcripts durch die Länge der Zeit zu erbleichen, und ſtellenweiſe unleſerlich zu werden anfing.

Der Druck des Werkes begann im Februar 1846, und nahm mit wenigen Unterbrechungen im Juni 1847 ſein Ende: jeder Druckbogen wurde erſtlich in der Druckerei, ſodann von mir zu Hauſe mit dem Manuſcript verglichen, ein drittes Mal aber vermittelſt eines der Hülfstafel S. 404 ähnlichen Rechnungsapparates, den ich mir zu dieſem Ende ſelbſt erdachte, rechnend geprüft: eine vierte Vergleichung wurde endlich nach vollendetem Abdrucke durch den Hörer der Baukunſt an dem hieſigen techniſchen Inſtitute Herrn Johann Wieſſner vorgenommen, und obgleich die Zahl der, Seite 402 angegebenen Druckfehler bei dieſem faſt anderthalb Millionen Ziffern enthaltenden Werke, nur als höchſt unbedeutend betrachtet werden kann, denn es kommt auf je 10000 Ziffern etwa ein Druckfehler vor; ſo habe ich aus Achtung für die Leſer, denen dieſes Werk in die Hände kommen dürfte Sorge getragen, daß die Mehrzahl der ſo bemerkten Fehler, bevor noch die Exemplare in den Buchhandel gelangen, von einigen Studierenden in meiner Gegenwart mit richtigen Stellen überdeckt wurden.

Prag im Oktober 1847.

Der Verfaſſer.

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# Quadrat- und Kubikzahlen

aller natürlichen Zahlen

bis

# Hundert Tausend.

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| 31 | 72 | 5565665 | 34 | 8669948 | 96 | 7634231 | 58 | 2458514 | 20 | 3142797 |
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| 33 | 96 | 7720771 | 62 | 1604238 | 28 | 71467705 | 94 | 7311172 | 60 | 9134639 |
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| 38 | 56 | 3109168 | 32 | 8940700 | *08 | 81052232 | 84 | 9443764 | 60 | 4115296 |
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| 42 | 304 | 7420532 | 88 | 4810624 | 72 | 8720716 | 56 | 9150808 | 40 | 6100900 |
| 43 | 16 | 8498463 | 202 | 6278210 | 88 | 90637957 | 74 | 61577704 | 60 | 9097451 |
| 44 | 28 | 9576430 | 16 | 7745838 | 104 | 2555246 | 92 | 4004654 | 80 | 32094062 |
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| 47 | 64 | 2810547 | 58 | 2148974 | 52 | 8307401 | 46 | 71285828 | 40 | 41084255 |
| 48 | 76 | 3888657 | 72 | 3616769 | 68 | *0224881 | 64 | 3712993 | 60 | 4081105 |
| 49 | 88 | 4966804 | 86 | 5084607 | 84 | 2142410 | 82 | 6140213 | 80 | 7078016 |

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| N | 99 | | 199 | | 299 | | 399 | | 499 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | $N^2$ | $N^3$ | $N^2$ | $N^3$ | $N^2$ | $N^3$ | $N^2$ | $N^3$ | $N^2$ | $N^3$ |
| | **99** | **98** | **39** | **79** | **89** | **268** | **159** | **63** | **249** | **124** |
| 50 | 00 2500 | 507487 5000 | 800 | 4014987 | 700 | 6522487 | 600 | 76029987 | 500 | 62537487 |
| 51 | 02 2401 | 37191 2351 | 04 | 134394 | 06 | 791597 | 08 | 6508800 | 10 | 3286003 |
| 52 | 04 2304 | 66900 9408 | 08 | 253812 | 12 | 7060724 | 16 | 6987636 | 20 | 4034548 |
| 53 | 06 2209 | 96616 6177 | 12 | 373243 | 18 | 329870 | 24 | 7466497 | 30 | 4783124 |
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| 57 | 14 1849 | 715539 0493 | 28 | 851086 | 42 | 406633 | 56 | 9382180 | 70 | 7777727 |
| 58 | 16 1764 | 45284 5912 | 32 | 970576 | 48 | 675868 | 64 | 9861160 | 80 | 8526452 |
| 59 | 18 1681 | 75036 1079 | 36 | 5090079 | 54 | 945122 | 72 | 80340165 | 90 | 9275208 |
| 60 | 20 1600 | 804793 6000 | 840 | 5209593 | 760 | 9214393 | 680 | 80819193 | 600 | 70023993 |
| 61 | 22 1521 | 34557 0681 | 44 | 329120 | 66 | 483683 | 88 | 1298246 | 10 | 0772809 |
| 62 | 24 1444 | 64326 5128 | 48 | 448658 | 72 | 752990 | 96 | 1777322 | 20 | 1521654 |
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| 64 | 28 1296 | 923883 3344 | 56 | 687771 | 84 | 291659 | 12 | 2735547 | 40 | 3019435 |
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| 79 | 58 0441 | 71322 0739 | 16 | 482645 | 74 | 333968 | 32 | 9925291 | 90 | 4256614 |
| 80 | 60 0400 | 401199 2000 | 920 | 7602399 | 880 | 4603599 | 840 | 90404799 | 800 | 85005999 |
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| 82 | 64 0324 | 60971 4168 | 28 | 841943 | 92 | 5142915 | 56 | 1363887 | 20 | 6504859 |
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| 85 | 70 0225 | 50674 6625 | 40 | 201349 | 10 | 952024 | 80 | 2802699 | 50 | 8753374 |
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| 99 | 98 0001 | 70002 9999 | 96 | 880005 | 94 | 730008 | 92 | 9520011 | 90 | 9250014 |

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| N | 599 | | 699 | | 799 | | 899 | | 999 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N² | N³ | N² | N³ | N² | N³ | N² | N³ | N² | N³ |
| | 359 | 215 | 489 | 342 | 639 | 511 | 809 | 727 | 999 | 998 |
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| 53 | 36 | 9279751 | 42 | 30956378 | 48 | 9813005 | 54 | 4849632 | 60 | 9066259 |
| 54 | 48 | 50358078 | 56 | 2424426 | 64 | 11730774 | 72 | 7277122 | 80 | 62063470 |
| 55 | 60 | 1436440 | 70 | 3892515 | 80 | 3648590 | 90 | 9704665 | 100 | 5060740 |
| 56 | 72 | 2514839 | 84 | 5360647 | 96 | 5566455 | 208 | 92132263 | 20 | 8058071 |
| 57 | 84 | 3593274 | 98 | 6828821 | 312 | 7484368 | 26 | 4559915 | 40 | 71055462 |
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| 59 | 508 | 5750251 | 26 | 9765294 | 44 | 21320337 | 62 | 9415380 | 80 | 7050423 |
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| 61 | 32 | 7907372 | 54 | 2701935 | 76 | 5156498 | 98 | 5271061 | 20 | 3045624 |
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| 63 | 56 | 60064636 | 82 | 5638743 | 408 | 8992850 | 34 | 10126957 | 60 | 9041064 |
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| 71 | 52 | 8695135 | 94 | 7387658 | 36 | 4340181 | 78 | 9552704 | 20 | 3025227 |
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| 78 | 36 | 6248710 | 92 | 7670162 | 48 | 7771614 | 604 | 6553066 | 60 | 4014518 |
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| 87 | 44 | 5963011 | 18 | 80893548 | 92 | 5044055 | 66 | 8414562 | 40 | 61005069 |
| 88 | 56 | 7042591 | 32 | 2363023 | 808 | 6963455 | 84 | 70843887 | 60 | 4004319 |
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| 98 | 76 | 7840071 | 72 | 7060083 | 68 | 6160095 | 64 | 5140107 | 60 | 4000119 |
| 99 | 88 | 8920017 | 86 | 8530020 | 84 | 8080023 | 82 | 7570026 | 80 | 7000029 |

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# Druckfehler.

(□ bedeutet die Quadratzahl, ∗ die Kubikzahl.)

| Seite | Zahl | | statt | lies |
|---|---|---|---|---|
| 16 | 40378 | ∗ | 005 | 009 |
| — | 40379 | ∗ | 139 | 135 |
| 17 | 80388 | ∗ | 757 | 857 |
| 22 | 20526 | ∗ | 600 | 609 |
| 24 | 576 | ∗ | 491 | 191 |
| 34 | 831 | □ | 591 | 561 |
| — | 40839 | □ | 72 | 82 |
| 35 | 90847 | □ | 377 | 317 |
| 36 | 20889 | ∗ | 392 | 492 |
| 48 | 1172 | □ | 484 | 584 |
| — | 31192 | ∗ | 449 | 479 |
| 50 | 1240 | ∗ | 996 | 906 |
| 55 | 81321 | □ | 210 | 310 |
| 61 | 81455 | ∗ | 626 | 627 |
| 62 | 1504 | ∗ | 702 | 402 |
| — | 11531 | ∗ | 340 | 320 |
| 63 | 71526 | ∗ | 277 | 247 |
| 64 | 31566 | □ | 44 | 41 |
| 65 | 71582 | ∗ | 839 | 849 |
| 67 | 81611 | □ | 25 | 35 |
| 68 | 31695 | ∗ | 499 | 399 |
| 70 | 31712 | □ | 67 | 65 |
| — | 31730 | □ | 676 | 679 |
| — | 41736 | ∗ | 696 | 996 |
| 73 | 51776 | □ | 65 | 75 |
| 75 | 51817 | ∗ | 237 | 287 |
| 82 | 2017 | ∗ | 391 | 891 |
| — | 2027 | ∗ | 633 | 683 |
| 90 | 2233 | □ | 99 | 98 |
| 91 | 92202 | ∗ | 878 | 828 |
| — | 72234 | ∗ | 991 | 990 |
| 92 | 2257 | □ | 504 | 404 |
| 99 | 62403 | □ | 33 | 13 |
| 100 | 32459 | ∗ | 984 | 983 |
| — | 42459 | ∗ | 546 | 436 |
| 110 | 32712 | ∗ | 012 | 042 |
| — | 12714 | ∗ | 416 | 516 |
| — | 22747 | ∗ | 983 | 988 |
| 113 | 92750 | ∗ | 681 | 671 |
| 114 | 22849 | ∗ | 843 | 893 |
| 115 | 92834 | ∗ | 475 | 574 |
| 116 | 2859 | □ | 884 | 881 |
| 123 | 73037 | □ | 30 | 40 |
| 125 | 63058 | ∗ | 119 | 419 |
| 126 | 3128 | □ | 304 | 384 |
| 130 | 3200 | ∗ | 900 | 800 |
| 132 | 33290 | ∗ | 790 | 780 |
| — | 43296 | ∗ | 692 | 602 |
| 133 | 93272 | ∗ | 545 | 565 |
| — | 73276 | ∗ | 145 | 115 |
| 135 | 83328 | ∗ | 980 | 970 |
| — | 93328 | ∗ | 732 | 722 |
| 137 | 53370 | ∗ | 867 | 807 |
| 138 | 13400 | ∗ | 144 | 104 |
| 139 | 93408 | ∗ | 998 | 988 |
| 140 | 3497 | □ | 006 | 009 |
| 143 | 63540 | ∗ | 039 | 049 |
| — | 93540 | ∗ | 838 | 893 |
| 162 | 4044 | □ | 986 | 936 |
| 163 | 94000 | ∗ | 090 | 000 |
| — | 54019 | ∗ | 362 | 302 |
| 170 | 4238 | ∗ | 327 | 927 |
| 173 | 94294 | □ | 33 | 35 |
| 181 | 84456 | ∗ | 309 | 409 |
| 182 | 4500 | □ | 55 | 25 |
| 202 | 85039 | ∗ | 858 | 848 |
| 204 | 35073 | □ | 14 | 11 |
| 205 | 75057 | □ | 35 | 55 |
| — | 85063 | ∗ | 945 | 915 |
| 209 | 95173 | □ | 90 | 89 |
| 212 | 35289 | ∗ | 258 | 458 |
| 215 | 55339 | □ | 38 | 40 |
| 217 | 65398 | □ | 80 | 89 |
| 223 | 95506 | ∗ | 864 | 804 |
| — | 95514 | □ | 82 | 92 |
| — | 95528 | □ | 50 | 59 |
| — | 95544 | □ | 94 | 65 |
| — | 95546 | □ | 902 | 903 |
| 225 | 85568 | □ | 81 | 88 |
| — | 95583 | □ | 619 | 610 |
| 226 | 45618 | ∗ | 911 | 311 |
| — | 15634 | □ | 45 | 42 |
| 227 | 65635 | □ | 65 | 95 |
| 229 | 75665 | □ | 79 | 19 |
| 230 | 25743 | ∗ | 983 | 993 |
| 231 | 65735 | □ | 609 | 109 |
| 232 | 35765 | ∗ | 782 | 482 |
| 233 | 95777 | □ | 24 | 23 |
| — | 65782 | □ | 26 | 27 |
| 238 | 45944 | ∗ | 004 | 094 |
| 250 | 46247 | ∗ | 229 | 239 |
| 251 | 56244 | ∗ | 146 | 156 |
| 256 | 26387 | □ | 21 | 27 |
| 267 | 86639 | ∗ | 729 | 739 |
| 270 | 36745 | ∗ | 029 | 129 |
| 272 | 36787 | ∗ | 332 | 832 |
| 279 | 86936 | ∗ | 027 | 207 |
| — | 96936 | ∗ | 656 | 646 |
| 283 | 87048 | ∗ | 303 | 353 |
| 285 | 97050 | ∗ | 792 | 762 |
| 287 | 97119 | ∗ | 554 | 553 |
| 288 | 37195 | ∗ | 590 | 580 |
| 291 | 77249 | ∗ | 783 | 763 |
| 292 | 37274 | ∗ | 826 | 866 |
| 297 | 87370 | ∗ | 057 | 037 |
| 298 | 7421 | ∗ | 646 | 946 |
| — | 7446 | □ | 914 | 916 |
| — | 37415 | ∗ | 265 | 765 |
| 301 | 57451 | ∗ | 032 | 030 |
| 302 | 47547 | ∗ | 111 | 113 |
| 303 | 97523 | ∗ | 009 | 099 |
| 305 | 57572 | ∗ | 411 | 441 |
| 306 | 17635 | ∗ | 665 | 655 |
| — | 7640 | □ | 606 | 600 |
| — | 37617 | ∗ | 921 | 951 |
| 308 | 47687 | □ | 104 | 404 |
| 309 | 57658 | ∗ | 737 | 773 |
| — | 77671 | ∗ | 472 | 478 |
| — | 57686 | □ | 76 | 67 |
| 312 | 37760 | ∗ | 207 | 257 |
| 313 | 87767 | □ | 302 | 304 |
| 316 | 17855 | ∗ | 249 | 219 |
| — | 7899 | ∗ | 869 | 369 |
| 317 | 87868 | ∗ | 309 | 409 |
| 324 | 18073 | ∗ | 424 | 324 |
| — | 18081 | ∗ | 888 | 868 |
| 325 | 68064 | ∗ | 428 | 438 |
| 326 | 38121 | ∗ | 248 | 284 |
| — | 8149 | ∗ | 999 | 949 |
| 331 | 58202 | ∗ | 243 | 213 |
| 336 | 18386 | ∗ | 205 | 295 |
| — | 48390 | ∗ | 447 | 417 |
| 337 | 68376 | ∗ | 646 | 676 |
| 338 | 38442 | ∗ | 181 | 184 |
| 341 | 88468 | ∗ | 087 | 083 |
| — | 68489 | ∗ | 521 | 561 |
| 343 | 78513 | ∗ | 969 | 769 |
| — | 88517 | ∗ | 538 | 536 |
| — | 58543 | ∗ | 484 | 434 |
| 344 | 38591 | ∗ | 273 | 223 |
| 346 | 8606 | ∗ | 880 | 890 |
| — | 8637 | □ | 796 | 769 |
| 347 | 68619 | □ | 50 | 56 |
| — | 98631 | ∗ | 252 | 257 |
| — | 98649 | ∗ | 015 | 150 |
| 353 | 78772 | □ | 522 | 502 |
| 356 | 18881 | ∗ | 847 | 849 |
| 357 | 88874 | □ | 48 | 58 |
| 359 | 58903 | □ | 46 | 56 |
| 375 | 79346 | ∗ | 445 | 455 |

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# Hülfstafeln.

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1. Perioden gerader Summanden.

| 04 | 06 | 08 | 12 | 14 | 16 | 18 | 22 | 24 | 26 | 28 | 32 | 34 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00 02 | 00 01 | 00 02 | 00 02 | 00 01 | 00 02 | 00 01 | 00 01 | 00 02 | 00 01 | 00 02 | 00 02 | 00 01 |
| 04 06 | 06 07 | 08 10 | 12 14 | 14 15 | 16 18 | 18 19 | 22 23 | 24 26 | 26 27 | 28 30 | 32 34 | 34 35 |
| 08 10 | 12 13 | 16 18 | 24 26 | 28 29 | 32 34 | 36 37 | 44 45 | 48 50 | 52 53 | 56 58 | 64 66 | 68 69 |
| 12 14 | 18 19 | 24 26 | 36 38 | 42 43 | 48 50 | 54 55 | 66 67 | 72 74 | 78 79 | 84 86 | 96 98 | 02 03 |
| 16 18 | 24 25 | 32 34 | 48 50 | 56 57 | 64 66 | 72 73 | 88 89 | 96 98 | 04 05 | 12 14 | 28 30 | 36 37 |
| 20 22 | 30 31 | 40 42 | 60 62 | 70 71 | 80 82 | 90 91 | 10 11 | 20 22 | 30 31 | 40 42 | 60 62 | 70 71 |
| 24 26 | 36 37 | 48 50 | 72 74 | 84 85 | 96 98 | 08 09 | 32 33 | 44 46 | 56 57 | 68 70 | 92 94 | 04 05 |
| 28 30 | 42 43 | 56 58 | 84 86 | 98 99 | 12 14 | 26 27 | 54 55 | 68 70 | 82 83 | 96 98 | 24 26 | 38 39 |
| 32 34 | 48 49 | 64 66 | 96 98 | 12 13 | 28 30 | 44 45 | 76 77 | 92 94 | 08 09 | 24 26 | 56 58 | 72 73 |
| 36 38 | 54 55 | 72 74 | 08 10 | 26 27 | 44 46 | 62 63 | 98 99 | 16 18 | 34 35 | 52 54 | 88 90 | 06 07 |
| 40 42 | 60 61 | 80 82 | 20 22 | 40 41 | 60 62 | 80 81 | 20 21 | 40 42 | 60 61 | 80 82 | 20 22 | 40 41 |
| 44 46 | 66 67 | 88 90 | 32 34 | 54 55 | 76 78 | 98 99 | 42 43 | 64 66 | 86 87 | 08 10 | 52 54 | 74 75 |
| 48 50 | 72 73 | 96 98 | 44 46 | 68 69 | 92 94 | 16 17 | 64 65 | 88 90 | 12 13 | 36 38 | 84 86 | 08 09 |
| 52 54 | 78 79 | 04 06 | 56 58 | 82 83 | 08 10 | 34 35 | 86 87 | 12 14 | 38 39 | 64 66 | 16 18 | 42 43 |
| 56 58 | 84 85 | 12 14 | 68 70 | 96 97 | 24 26 | 52 53 | 08 09 | 36 38 | 64 65 | 92 94 | 48 50 | 76 77 |
| 60 62 | 90 91 | 20 22 | 80 82 | 10 11 | 40 42 | 70 71 | 30 31 | 60 62 | 90 91 | 20 22 | 80 82 | 10 11 |
| 64 66 | 96 97 | 28 30 | 92 94 | 24 25 | 56 58 | 88 89 | 52 53 | 84 86 | 16 17 | 48 50 | 12 14 | 44 45 |
| 68 70 | 02 03 | 36 38 | 04 06 | 38 39 | 72 74 | 06 07 | 74 75 | 08 10 | 42 43 | 76 78 | 44 46 | 78 79 |
| 72 74 | 08 09 | 44 46 | 16 18 | 52 53 | 88 90 | 24 25 | 96 97 | 32 34 | 68 69 | 04 06 | 76 78 | 12 13 |
| 76 78 | 14 15 | 52 54 | 28 30 | 66 67 | 04 06 | 42 43 | 18 19 | 56 58 | 94 95 | 32 34 | 08 10 | 46 47 |
| 80 82 | 20 21 | 60 62 | 40 42 | 80 81 | 20 22 | 60 61 | 40 41 | 80 82 | 20 21 | 60 62 | 40 42 | 80 81 |
| 84 86 | 26 27 | 68 70 | 52 54 | 94 95 | 36 38 | 78 79 | 62 63 | 04 06 | 46 47 | 88 90 | 72 74 | 14 15 |
| 88 90 | 32 33 | 76 78 | 64 66 | 08 09 | 52 54 | 96 97 | 84 85 | 28 30 | 72 73 | 16 18 | 04 06 | 48 49 |
| 92 94 | 38 39 | 84 86 | 76 78 | 22 23 | 68 70 | 14 15 | 06 07 | 52 54 | 98 99 | 44 46 | 36 38 | 82 83 |
| 96 98 | 44 45 | 92 94 | 88 90 | 36 37 | 84 86 | 32 33 | 28 29 | 76 78 | 24 25 | 72 74 | 68 70 | 16 17 |
| 01 03 | 50 51 | 01 03 | 01 03 | 50 51 | 01 03 | 50 51 | 50 51 | 01 03 | 50 51 | 01 03 | 01 03 | 50 51 |
| 05 07 | 56 57 | 09 11 | 13 15 | 64 65 | 17 19 | 68 69 | 72 73 | 25 27 | 76 77 | 29 31 | 33 35 | 84 85 |
| 09 11 | 62 63 | 17 19 | 25 27 | 78 79 | 33 35 | 86 87 | 94 95 | 49 51 | 02 03 | 57 59 | 65 67 | 18 19 |
| 13 15 | 68 69 | 25 27 | 37 39 | 92 93 | 49 51 | 04 05 | 16 17 | 73 75 | 28 29 | 85 87 | 97 99 | 52 53 |
| 17 19 | 74 75 | 33 35 | 49 51 | 06 07 | 65 67 | 22 23 | 38 39 | 97 99 | 54 55 | 13 15 | 29 31 | 86 87 |
| 21 23 | 80 81 | 41 43 | 61 63 | 20 21 | 81 83 | 40 41 | 60 61 | 21 23 | 80 81 | 41 43 | 61 63 | 20 21 |
| 25 27 | 86 87 | 49 51 | 73 75 | 34 35 | 97 99 | 58 59 | 82 83 | 45 47 | 06 07 | 69 71 | 93 95 | 54 55 |
| 29 31 | 92 93 | 57 59 | 85 87 | 48 49 | 13 15 | 76 77 | 04 05 | 69 71 | 32 33 | 97 99 | 25 27 | 88 89 |
| 33 35 | 98 99 | 65 67 | 97 99 | 62 63 | 29 31 | 94 95 | 26 27 | 93 95 | 58 59 | 25 27 | 57 59 | 22 23 |
| 37 39 | 04 05 | 73 75 | 09 11 | 76 77 | 45 47 | 12 13 | 48 49 | 17 19 | 84 85 | 53 55 | 89 91 | 56 57 |
| 41 43 | 10 11 | 81 83 | 21 23 | 90 91 | 61 63 | 30 31 | 70 71 | 41 43 | 10 11 | 81 83 | 21 23 | 90 91 |
| 45 47 | 16 17 | 89 91 | 33 35 | 04 05 | 77 79 | 48 49 | 92 93 | 65 67 | 36 37 | 09 11 | 53 55 | 24 25 |
| 49 51 | 22 23 | 97 99 | 45 47 | 18 19 | 93 95 | 66 67 | 14 15 | 89 91 | 62 63 | 37 39 | 85 87 | 58 59 |
| 53 55 | 28 29 | 05 07 | 57 59 | 32 33 | 09 11 | 84 85 | 36 37 | 13 15 | 88 89 | 65 67 | 17 19 | 92 93 |
| 57 59 | 34 35 | 13 15 | 69 71 | 46 47 | 25 27 | 02 03 | 58 59 | 37 39 | 14 15 | 93 95 | 49 51 | 26 27 |
| 61 63 | 40 41 | 21 23 | 81 83 | 60 61 | 41 43 | 20 21 | 80 81 | 61 63 | 40 41 | 21 23 | 81 83 | 60 61 |
| 65 67 | 46 47 | 29 31 | 93 95 | 74 75 | 57 59 | 38 39 | 02 03 | 85 87 | 66 67 | 49 51 | 13 15 | 94 95 |
| 69 71 | 52 53 | 37 39 | 05 07 | 88 89 | 73 75 | 56 57 | 24 25 | 09 11 | 92 93 | 77 79 | 45 47 | 28 29 |
| 73 75 | 58 59 | 45 47 | 17 19 | 02 03 | 89 91 | 74 75 | 46 47 | 33 35 | 18 19 | 05 07 | 77 79 | 62 63 |
| 77 79 | 64 65 | 53 55 | 29 31 | 16 17 | 05 07 | 92 93 | 68 69 | 57 59 | 44 45 | 33 35 | 09 11 | 96 97 |
| 81 83 | 70 71 | 61 63 | 41 43 | 30 31 | 21 23 | 10 11 | 90 91 | 81 83 | 70 71 | 61 63 | 41 43 | 30 31 |
| 85 87 | 76 77 | 69 71 | 53 55 | 44 45 | 37 39 | 28 29 | 12 13 | 05 07 | 96 97 | 89 91 | 73 75 | 64 65 |
| 89 91 | 82 83 | 77 79 | 65 67 | 58 59 | 53 55 | 46 47 | 34 35 | 29 31 | 22 23 | 17 19 | 05 07 | 98 99 |
| 93 95 | 88 89 | 85 87 | 77 79 | 72 73 | 69 71 | 64 65 | 56 57 | 53 55 | 48 49 | 45 47 | 37 39 | 32 33 |
| 97 99 | 94 95 | 93 95 | 89 91 | 86 87 | 85 87 | 82 83 | 78 79 | 77 79 | 74 75 | 73 75 | 69 71 | 66 67 |
| 96 | 94 | 92 | 88 | 86 | 84 | 82 | 78 | 76 | 74 | 72 | 68 | 66 |

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| 1. Perioden gerader Summanden. | | | | | | 2. Primzahlen, welche die Summe zweier Quadratzahlen sind. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36 | 38 | 42 | 44 | 46 | 48 | N | x | y | N | x | y | N | x | y | N | x | y |
| 00 02 | 00 01 | 00 01 | 00 02 | 00 01 | 00 02 | 5 | 1 | 2 | 577 | 1 | 24 | 1217 | 16 | 31 | 1993 | 12 | 43 |
| 36 38 | 38 39 | 42 43 | 44 46 | 46 47 | 48 50 | 13 | 2 | 3 | 593 | 8 | 23 | 229 | 2 | 35 | 997 | 29 | 34 |
| 72 74 | 76 77 | 84 85 | 88 90 | 92 93 | 96 98 | 17 | 1 | 4 | 601 | 5 | 24 | 237 | 9 | 34 | 2017 | 9 | 44 |
| 08 10 | 14 15 | 26 27 | 32 34 | 38 39 | 44 46 | 29 | 2 | 5 | 613 | 17 | 18 | 249 | 15 | 32 | 029 | 2 | 45 |
| 44 46 | 52 53 | 68 69 | 76 78 | 84 85 | 92 94 | 37 | 1 | 6 | 617 | 16 | 19 | 277 | 11 | 34 | 053 | 17 | 42 |
| 80 82 | 90 91 | 10 11 | 20 22 | 30 31 | 40 42 | 41 | 4 | 5 | 641 | 4 | 25 | 289 | 8 | 35 | 069 | 25 | 38 |
| 16 18 | 28 29 | 52 53 | 64 66 | 76 77 | 88 90 | 53 | 2 | 7 | 653 | 13 | 22 | 297 | 1 | 36 | 081 | 20 | 41 |
| 52 54 | 66 67 | 94 95 | 08 10 | 22 23 | 36 38 | 61 | 5 | 6 | 661 | 6 | 25 | 1301 | 25 | 26 | 089 | 8 | 45 |
| 88 90 | 04 05 | 36 37 | 52 54 | 68 69 | 84 86 | 73 | 3 | 8 | 673 | 12 | 23 | 321 | 5 | 36 | 2113 | 32 | 33 |
| 24 26 | 42 43 | 78 79 | 96 98 | 14 15 | 32 34 | 89 | 5 | 8 | 677 | 1 | 26 | 361 | 20 | 31 | 129 | 23 | 40 |
| 60 62 | 80 81 | 20 21 | 40 42 | 60 61 | 80 82 | 97 | 4 | 9 | 701 | 5 | 26 | 369 | 12 | 35 | 137 | 29 | 36 |
| 96 98 | 18 19 | 62 63 | 84 86 | 06 07 | 28 30 | 101 | 1 | 10 | 709 | 15 | 22 | 373 | 2 | 37 | 141 | 5 | 46 |
| 32 34 | 56 57 | 04 05 | 28 30 | 52 53 | 76 78 | 109 | 3 | 10 | 733 | 2 | 27 | 381 | 15 | 34 | 153 | 28 | 37 |
| 68 70 | 94 95 | 46 47 | 72 74 | 98 99 | 24 26 | 113 | 7 | 8 | 757 | 9 | 26 | 1409 | 25 | 28 | 161 | 15 | 44 |
| 04 06 | 32 33 | 88 89 | 16 18 | 44 45 | 72 74 | 137 | 4 | 11 | 761 | 19 | 20 | 429 | 23 | 30 | 2213 | 2 | 47 |
| 40 42 | 70 71 | 30 31 | 60 62 | 90 91 | 20 22 | 149 | 7 | 10 | 769 | 12 | 25 | 433 | 8 | 37 | 221 | 14 | 45 |
| 76 78 | 08 09 | 72 73 | 04 06 | 36 37 | 68 70 | 157 | 6 | 11 | 773 | 17 | 22 | 453 | 3 | 38 | 237 | 11 | 46 |
| 12 14 | 46 47 | 14 15 | 48 50 | 82 83 | 16 18 | 173 | 2 | 13 | 797 | 11 | 26 | 481 | 16 | 35 | 269 | 30 | 37 |
| 48 50 | 84 85 | 56 57 | 92 94 | 28 29 | 64 66 | 181 | 9 | 10 | 809 | 5 | 28 | 489 | 20 | 33 | 273 | 8 | 47 |
| 84 86 | 22 23 | 98 99 | 36 38 | 74 75 | 12 14 | 193 | 7 | 12 | 821 | 14 | 25 | 493 | 7 | 38 | 281 | 16 | 45 |
| 20 22 | 60 61 | 40 41 | 80 82 | 20 21 | 60 62 | 197 | 1 | 14 | 829 | 10 | 27 | 1549 | 18 | 35 | 293 | 23 | 42 |
| 56 58 | 98 99 | 82 83 | 24 26 | 66 67 | 08 10 | 229 | 2 | 15 | 841 | 20 | 21 | 553 | 23 | 32 | 297 | 19 | 44 |
| 92 94 | 36 37 | 24 25 | 68 70 | 12 13 | 56 58 | 233 | 8 | 13 | 853 | 18 | 23 | 597 | 21 | 34 | 2309 | 10 | 47 |
| 28 30 | 74 75 | 66 67 | 12 14 | 58 59 | 04 06 | 241 | 4 | 15 | 857 | 4 | 29 | 1601 | 1 | 40 | 333 | 22 | 43 |
| 64 66 | 12 13 | 08 09 | 56 58 | 04 05 | 52 54 | 257 | 1 | 16 | 877 | 6 | 29 | 609 | 3 | 40 | 341 | 15 | 46 |
| 01 03 | 50 51 | 50 51 | 01 03 | 50 51 | 01 03 | 269 | 10 | 13 | 881 | 16 | 25 | 613 | 13 | 38 | 357 | 26 | 41 |
| 37 39 | 88 89 | 92 93 | 45 47 | 96 97 | 49 51 | 277 | 9 | 14 | 901 | 1 | 30 | 621 | 10 | 39 | 377 | 21 | 44 |
| 73 75 | 26 27 | 34 35 | 89 91 | 42 43 | 97 99 | 281 | 5 | 16 | 929 | 20 | 23 | 637 | 26 | 31 | 381 | 34 | 35 |
| 09 11 | 64 65 | 76 77 | 33 35 | 88 89 | 45 47 | 289 | 8 | 15 | 937 | 19 | 24 | 657 | 19 | 36 | 389 | 25 | 42 |
| 45 47 | 02 03 | 18 19 | 77 79 | 34 35 | 93 95 | 293 | 2 | 17 | 941 | 10 | 29 | 669 | 15 | 38 | 393 | 32 | 37 |
| 81 83 | 40 41 | 60 61 | 21 23 | 80 81 | 41 43 | 313 | 12 | 13 | 953 | 13 | 28 | 681 | 9 | 40 | 2417 | 4 | 49 |
| 17 19 | 78 79 | 02 03 | 65 67 | 26 27 | 89 91 | 317 | 11 | 14 | 977 | 4 | 31 | 693 | 18 | 37 | 437 | 6 | 49 |
| 53 55 | 16 17 | 44 45 | 09 11 | 72 73 | 37 39 | 337 | 9 | 16 | 997 | 6 | 31 | 697 | 4 | 41 | 441 | 29 | 40 |
| 89 91 | 54 55 | 86 87 | 53 55 | 18 19 | 85 87 | 349 | 5 | 18 | 1009 | 15 | 28 | 1709 | 22 | 35 | 473 | 13 | 48 |
| 25 27 | 92 93 | 28 29 | 97 99 | 64 65 | 33 35 | 353 | 8 | 17 | 013 | 22 | 23 | 721 | 11 | 40 | 477 | 19 | 46 |
| 61 63 | 30 31 | 70 71 | 41 43 | 10 11 | 81 83 | 373 | 7 | 18 | 021 | 11 | 30 | 733 | 17 | 38 | 521 | 35 | 36 |
| 97 99 | 68 69 | 12 13 | 85 87 | 56 57 | 29 31 | 389 | 10 | 17 | 033 | 3 | 32 | 741 | 29 | 30 | 549 | 7 | 50 |
| 33 35 | 06 07 | 54 55 | 29 31 | 02 03 | 77 79 | 397 | 6 | 19 | 049 | 5 | 32 | 753 | 27 | 32 | 557 | 21 | 46 |
| 69 71 | 44 45 | 96 97 | 73 75 | 48 49 | 25 27 | 401 | 1 | 20 | 061 | 10 | 31 | 777 | 16 | 39 | 593 | 17 | 48 |
| 05 07 | 82 83 | 38 39 | 17 19 | 94 95 | 73 75 | 409 | 3 | 20 | 069 | 13 | 30 | 789 | 5 | 42 | 2609 | 20 | 47 |
| 41 43 | 20 21 | 80 81 | 61 63 | 40 41 | 21 23 | 421 | 14 | 15 | 093 | 2 | 33 | 1801 | 24 | 35 | 617 | 4 | 51 |
| 77 79 | 58 59 | 22 23 | 05 07 | 86 87 | 69 71 | 433 | 12 | 17 | 097 | 16 | 29 | 861 | 30 | 31 | 621 | 11 | 50 |
| 13 15 | 96 97 | 64 65 | 49 51 | 32 33 | 17 19 | 449 | 7 | 20 | 1109 | 22 | 25 | 873 | 28 | 33 | 633 | 28 | 43 |
| 49 51 | 34 35 | 06 07 | 93 97 | 78 79 | 65 67 | 457 | 4 | 21 | 117 | 21 | 26 | 877 | 14 | 41 | 657 | 16 | 49 |
| 85 87 | 72 73 | 48 49 | 37 39 | 24 25 | 13 15 | 461 | 10 | 19 | 129 | 20 | 27 | 889 | 17 | 40 | 677 | 34 | 39 |
| 21 23 | 10 11 | 90 91 | 81 83 | 70 71 | 61 63 | 509 | 5 | 22 | 153 | 8 | 33 | 1901 | 26 | 35 | 689 | 33 | 40 |
| 57 59 | 48 49 | 32 33 | 25 27 | 16 17 | 09 11 | 521 | 11 | 20 | 181 | 5 | 34 | 913 | 8 | 43 | 693 | 22 | 47 |
| 93 95 | 86 87 | 74 75 | 69 71 | 62 63 | 57 59 | 541 | 10 | 21 | 193 | 13 | 32 | 933 | 13 | 42 | 2713 | 3 | 52 |
| 29 31 | 24 25 | 16 17 | 13 15 | 08 09 | 05 07 | 557 | 14 | 19 | 1201 | 24 | 25 | 949 | 10 | 43 | 729 | 5 | 52 |
| 65 67 | 62 63 | 58 59 | 57 59 | 54 55 | 53 55 | 569 | 13 | 20 | 213 | 22 | 27 | 973 | 23 | 38 | 741 | 25 | 46 |
| 64 | 62 | 58 | 56 | 54 | 52 | | | | | | | | | | | | |

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2. Primzahlen, welche die Summe zweier Quadratzahlen sind.

| N | x | y | N | x | y | N | x | y | N | x | y | N | x | y | N | x | y | N | x | y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2749 | 30 | 43 | 3557 | 34 | 49 | 4373 | 23 | 62 | 5273 | 28 | 67 | 6133 | 7 | 78 | 6997 | 39 | 74 | 7853 | 58 | 8 |
| 753 | 7 | 52 | 581 | 10 | 59 | 397 | 26 | 61 | 281 | 41 | 60 | 173 | 53 | 58 | 7001 | 35 | 76 | 873 | 57 | 41 |
| 777 | 29 | 44 | 593 | 28 | 53 | 4409 | 40 | 53 | 297 | 16 | 71 | 197 | 34 | 71 | 013 | 17 | 82 | 877 | 49 | 50 |
| 789 | 17 | 50 | 3613 | 42 | 43 | 421 | 14 | 65 | 309 | 50 | 53 | 6217 | 21 | 76 | 057 | 1 | 84 | 7901 | 26 | 17 |
| 797 | 14 | 51 | 617 | 41 | 44 | 441 | 29 | 60 | 329 | 48 | 55 | 221 | 50 | 61 | 069 | 38 | 75 | 921 | 39 | 56 |
| 2801 | 20 | 49 | 637 | 39 | 46 | 457 | 19 | 64 | 333 | 2 | 73 | 229 | 30 | 73 | 7109 | 47 | 70 | 933 | 43 | 78 |
| 809 | 28 | 45 | 673 | 37 | 48 | 481 | 16 | 65 | 381 | 34 | 65 | 257 | 4 | 79 | 121 | 55 | 64 | 937 | 4 | 89 |
| 833 | 23 | 48 | 677 | 14 | 59 | 493 | 2 | 67 | 393 | 8 | 73 | 269 | 37 | 70 | 129 | 27 | 80 | 949 | 35 | 82 |
| 837 | 34 | 41 | 697 | 36 | 49 | 4513 | 47 | 48 | 5413 | 38 | 63 | 277 | 6 | 79 | 177 | 11 | 84 | 993 | 53 | 72 |
| 857 | 16 | 51 | 3701 | 26 | 55 | 517 | 46 | 49 | 417 | 44 | 59 | 6301 | 26 | 75 | 193 | 52 | 67 | 8009 | 28 | 85 |
| 861 | 19 | 50 | 709 | 30 | 53 | 549 | 18 | 65 | 437 | 26 | 69 | 317 | 29 | 74 | 7213 | 18 | 83 | 017 | 31 | 84 |
| 897 | 31 | 44 | 721 | 11 | 60 | 561 | 31 | 60 | 441 | 20 | 71 | 329 | 20 | 77 | 229 | 2 | 85 | 053 | 22 | 87 |
| 2909 | 10 | 53 | 733 | 22 | 57 | 597 | 41 | 54 | 449 | 43 | 60 | 337 | 36 | 71 | 237 | 26 | 81 | 069 | 62 | 65 |
| 917 | 1 | 54 | 761 | 25 | 56 | 4621 | 30 | 61 | 477 | 1 | 74 | 353 | 32 | 73 | 253 | 23 | 82 | 081 | 41 | 80 |
| 953 | 12 | 53 | 769 | 13 | 60 | 637 | 34 | 59 | 5501 | 5 | 74 | 361 | 40 | 69 | 297 | 39 | 76 | 089 | 60 | 67 |
| 957 | 29 | 46 | 793 | 33 | 52 | 649 | 5 | 68 | 521 | 36 | 65 | 373 | 17 | 78 | 7309 | 35 | 78 | 093 | 37 | 82 |
| 969 | 37 | 40 | 797 | 41 | 46 | 657 | 39 | 56 | 557 | 9 | 74 | 389 | 55 | 58 | 321 | 60 | 61 | 8101 | 1 | 90 |
| 3001 | 20 | 51 | 3821 | 10 | 61 | 673 | 7 | 68 | 569 | 40 | 63 | 397 | 54 | 59 | 333 | 58 | 63 | 117 | 14 | 89 |
| 037 | 11 | 54 | 833 | 32 | 53 | 4721 | 25 | 64 | 573 | 47 | 58 | 6421 | 39 | 70 | 349 | 25 | 82 | 161 | 40 | 81 |
| 041 | 4 | 55 | 853 | 3 | 62 | 729 | 45 | 52 | 581 | 35 | 66 | 449 | 7 | 80 | 369 | 12 | 85 | 8209 | 55 | 72 |
| 049 | 32 | 45 | 877 | 31 | 54 | 733 | 37 | 58 | 5641 | 4 | 75 | 469 | 50 | 63 | 393 | 47 | 72 | 221 | 11 | 90 |
| 061 | 6 | 55 | 881 | 20 | 59 | 789 | 42 | 55 | 653 | 18 | 73 | 473 | 43 | 68 | 7417 | 19 | 84 | 233 | 43 | 77 |
| 089 | 8 | 55 | 889 | 17 | 60 | 793 | 13 | 68 | 657 | 44 | 61 | 481 | 9 | 80 | 433 | 53 | 68 | 237 | 29 | 86 |
| 3109 | 30 | 47 | 3917 | 14 | 61 | 4801 | 24 | 65 | 669 | 38 | 65 | 6521 | 11 | 80 | 457 | 41 | 76 | 269 | 13 | 90 |
| 121 | 39 | 40 | 929 | 35 | 52 | 813 | 18 | 67 | 689 | 8 | 75 | 529 | 48 | 65 | 477 | 9 | 86 | 273 | 23 | 88 |
| 137 | 1 | 56 | 989 | 25 | 58 | 817 | 41 | 56 | 693 | 43 | 62 | 553 | 37 | 72 | 481 | 16 | 85 | 293 | 47 | 78 |
| 169 | 12 | 55 | 4001 | 40 | 49 | 861 | 10 | 69 | 5701 | 15 | 74 | 569 | 13 | 80 | 489 | 33 | 80 | 297 | 4 | 91 |
| 181 | 34 | 45 | 013 | 13 | 62 | 877 | 34 | 61 | 717 | 26 | 71 | 577 | 4 | 81 | 7517 | 11 | 86 | 8317 | 6 | 91 |
| 3209 | 20 | 53 | 021 | 39 | 50 | 889 | 20 | 67 | 737 | 51 | 56 | 581 | 41 | 70 | 529 | 40 | 77 | 329 | 52 | 75 |
| 217 | 9 | 56 | 049 | 32 | 55 | 4909 | 3 | 70 | 741 | 29 | 70 | 6637 | 54 | 61 | 537 | 36 | 79 | 353 | 28 | 87 |
| 221 | 14 | 55 | 057 | 24 | 59 | 913 | 17 | 68 | 749 | 50 | 57 | 653 | 53 | 62 | 541 | 50 | 71 | 369 | 25 | 88 |
| 229 | 27 | 50 | 073 | 37 | 52 | 933 | 33 | 62 | 5801 | 5 | 76 | 661 | 10 | 81 | 549 | 18 | 85 | 377 | 51 | 76 |
| 253 | 2 | 57 | 093 | 27 | 58 | 937 | 29 | 64 | 813 | 22 | 73 | 673 | 52 | 63 | 561 | 44 | 75 | 389 | 17 | 90 |
| 257 | 11 | 56 | 4129 | 23 | 60 | 957 | 14 | 69 | 821 | 14 | 75 | 689 | 17 | 80 | 573 | 2 | 87 | 8429 | 50 | 77 |
| 3301 | 30 | 49 | 133 | 17 | 62 | 969 | 37 | 60 | 849 | 35 | 68 | 6701 | 35 | 74 | 577 | 59 | 64 | 461 | 19 | 90 |
| 313 | 8 | 57 | 153 | 43 | 48 | 973 | 22 | 67 | 857 | 9 | 76 | 709 | 25 | 78 | 589 | 58 | 65 | 8501 | 55 | 74 |
| 329 | 23 | 52 | 157 | 26 | 59 | 993 | 32 | 63 | 861 | 31 | 70 | 733 | 3 | 82 | 7621 | 15 | 86 | 513 | 7 | 92 |
| 361 | 15 | 56 | 177 | 9 | 64 | 5009 | 28 | 65 | 869 | 45 | 62 | 737 | 31 | 76 | 649 | 55 | 68 | 521 | 36 | 85 |
| 373 | 3 | 58 | 4201 | 40 | 51 | 021 | 11 | 70 | 881 | 16 | 75 | 761 | 19 | 80 | 669 | 10 | 87 | 537 | 16 | 91 |
| 389 | 5 | 58 | 217 | 11 | 64 | 077 | 6 | 71 | 897 | 11 | 76 | 781 | 34 | 75 | 673 | 28 | 83 | 573 | 43 | 82 |
| 3413 | 7 | 58 | 229 | 2 | 65 | 081 | 40 | 59 | 5953 | 52 | 57 | 793 | 48 | 67 | 681 | 25 | 84 | 581 | 65 | 66 |
| 433 | 27 | 52 | 241 | 4 | 65 | 5101 | 50 | 51 | 981 | 50 | 59 | 6829 | 30 | 77 | 7717 | 34 | 81 | 597 | 26 | 89 |
| 449 | 40 | 43 | 253 | 38 | 53 | 113 | 48 | 53 | 6029 | 10 | 77 | 833 | 47 | 68 | 741 | 46 | 75 | 8609 | 47 | 80 |
| 457 | 39 | 44 | 261 | 6 | 65 | 153 | 23 | 68 | 037 | 41 | 66 | 841 | 21 | 80 | 753 | 3 | 88 | 629 | 23 | 90 |
| 461 | 31 | 50 | 273 | 32 | 57 | 189 | 17 | 70 | 053 | 47 | 62 | 857 | 56 | 61 | 757 | 19 | 86 | 641 | 60 | 71 |
| 469 | 38 | 45 | 289 | 8 | 65 | 197 | 29 | 66 | 073 | 12 | 77 | 869 | 55 | 62 | 789 | 30 | 83 | 669 | 38 | 85 |
| 3517 | 6 | 59 | 297 | 24 | 61 | 5209 | 5 | 72 | 089 | 40 | 67 | 6917 | 26 | 79 | 793 | 7 | 88 | 677 | 46 | 81 |
| 529 | 35 | 48 | 4337 | 44 | 49 | 233 | 7 | 72 | 6101 | 25 | 74 | 949 | 15 | 82 | 7817 | 61 | 64 | 681 | 20 | 91 |
| 533 | 13 | 58 | 349 | 43 | 50 | 237 | 14 | 71 | 113 | 28 | 73 | 961 | 20 | 81 | 829 | 50 | 73 | 689 | 15 | 92 |
| 541 | 25 | 54 | 357 | 1 | 66 | 261 | 19 | 70 | 121 | 45 | 64 | 977 | 44 | 71 | 841 | 40 | 79 | 693 | 58 | 73 |

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| $N=x^3+y^3$ | | | | | | 3. Ungerade Zahlen, welche die Differenz zweier Kubikz. sind. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | x | y | N | x | y | N | x | y | N | x | y | N | x | y | N | x | y |
| 8713 | 8 | 93 | 9629 | 5 | 98 | 7 | 2 | 1 | 1727 | 12 | 1 | 4563 | 24 | 21 | 7999 | 20 | 1 |
| 737 | 41 | 84 | 649 | 57 | 80 | 19 | 3 | 2 | 1801 | 25 | 24 | 4625 | 20 | 15 | 8071 | 23 | 16 |
| 741 | 50 | 79 | 661 | 69 | 70 | 37 | 4 | 3 | 1899 | 16 | 13 | 4681 | 40 | 39 | 8261 | 21 | 10 |
| 753 | 17 | 92 | 677 | 29 | 94 | 61 | 5 | 4 | 1951 | 26 | 25 | 4697 | 17 | 6 | 8269 | 53 | 52 |
| 761 | 56 | 75 | 689 | 35 | 92 | 63 | 4 | 1 | 1981 | 13 | 6 | 4849 | 17 | 4 | 8315 | 26 | 21 |
| 8824 | 30 | 89 | 697 | 56 | 81 | 91 | 6 | 5 | 2015 | 14 | 9 | 4905 | 17 | 2 | 8379 | 32 | 29 |
| 837 | 1 | 94 | 9721 | 64 | 75 | 117 | 5 | 2 | 2107 | 27 | 26 | 4921 | 41 | 40 | 8451 | 22 | 13 |
| 849 | 65 | 68 | 733 | 18 | 97 | 127 | 7 | 6 | 2133 | 13 | 4 | 4977 | 25 | 22 | 8587 | 54 | 53 |
| 861 | 5 | 94 | 749 | 55 | 82 | 169 | 8 | 7 | 2169 | 17 | 14 | 5103 | 18 | 9 | 8749 | 21 | 8 |
| 893 | 53 | 78 | 769 | 45 | 88 | 189 | 6 | 3 | 2189 | 13 | 2 | 5131 | 19 | 12 | 8911 | 55 | 54 |
| 8929 | 60 | 73 | 781 | 41 | 90 | 215 | 9 | 8 | 2269 | 28 | 27 | 5165 | 21 | 16 | | 24 | 17 |
| 933 | 47 | 82 | 9317 | 4 | 99 | 271 | 10 | 9 | 2375 | 15 | 10 | 5167 | 42 | 41 | 8937 | 33 | 30 |
| 941 | 29 | 90 | 829 | 15 | 98 | 279 | 7 | 4 | 2401 | 14 | 7 | 5409 | 26 | 23 | 9035 | 27 | 22 |
| 969 | 35 | 88 | 833 | 37 | 92 | 331 | 11 | 10 | 2437 | 29 | 28 | 5419 | 43 | 42 | 9045 | 21 | 6 |
| 9001 | 51 | 80 | 857 | 44 | 89 | 335 | 7 | 2 | 2457 | 18 | 15 | 5489 | 18 | 7 | 9197 | 21 | 4 |
| 013 | 38 | 87 | 9901 | 10 | 99 | 387 | 8 | 5 | 2611 | 30 | 29 | 5677 | 44 | 43 | 9241 | 56 | 55 |
| 029 | 2 | 95 | 929 | 52 | 85 | 397 | 12 | 11 | 2619 | 14 | 5 | 5707 | 18 | 5 | 9253 | 21 | 2 |
| 041 | 4 | 95 | 941 | 70 | 71 | 469 | 13 | 12 | 2657 | 24 | 28 | 5735 | 22 | 17 | 9317 | 22 | 11 |
| 049 | 20 | 93 | 949 | 43 | 90 | 485 | 8 | 3 | 2717 | 14 | 3 | 5803 | 20 | 13 | 9423 | 23 | 14 |
| 9109 | 55 | 78 | 973 | 57 | 82 | 511 | 8 | 1 | 2743 | 14 | 1 | 5805 | 18 | 3 | 9513 | 34 | 31 |
| 133 | 22 | 93 | 10009 | 3 | 100 | 513 | 9 | 6 | 2763 | 19 | 16 | 5831 | 18 | 1 | 9577 | 57 | 56 |
| 137 | 64 | 71 | 037 | 46 | 89 | 547 | 14 | 13 | 2765 | 16 | 11 | 5859 | 19 | 10 | 9785 | 28 | 23 |
| 157 | 54 | 79 | 061 | 35 | 94 | 631 | 15 | 14 | 2791 | 31 | 30 | | 27 | 24 | 9793 | 25 | 18 |
| 161 | 44 | 85 | 069 | 50 | 87 | 647 | 15 | 12 | 2863 | 15 | 8 | 5941 | 45 | 44 | 9919 | 22 | 9 |
| 173 | 62 | 73 | 093 | 38 | 93 | 657 | 10 | 7 | 2977 | 32 | 31 | 6211 | 46 | 45 | | 58 | 57 |
| 181 | 30 | 91 | 10133 | 23 | 98 | 665 | 9 | 4 | 3087 | 20 | 17 | 6327 | 28 | 25 | 10107 | 35 | 32 |
| 9209 | 53 | 80 | 141 | 54 | 85 | 721 | 16 | 15 | 3159 | 15 | 6 | 6335 | 23 | 18 | 10267 | 59 | 58 |
| 221 | 14 | 95 | 169 | 13 | 100 | 817 | 17 | 16 | 3169 | 33 | 32 | 6347 | 19 | 8 | 10305 | 22 | 7 |
| 241 | 5 | 96 | 177 | 31 | 96 | 819 | 11 | 8 | 3185 | 17 | 12 | 6487 | 47 | 46 | 10439 | 23 | 12 |
| 257 | 59 | 76 | 181 | 34 | 95 | 875 | 10 | 5 | 3311 | 15 | 4 | 6517 | 21 | 14 | 10449 | 24 | 15 |
| 277 | 21 | 94 | 193 | 28 | 97 | 919 | 18 | 17 | | 15 | 2 | 6643 | 19 | 6 | 10523 | 22 | 5 |
| 281 | 16 | 95 | 10201 | 20 | 99 | 973 | 10 | 3 | 3367 | 16 | 9 | 6669 | 20 | 11 | 10565 | 29 | 24 |
| 293 | 58 | 77 | 253 | 58 | 83 | 999 | 10 | 1 | | 34 | 33 | 6769 | 48 | 47 | 10621 | 22 | 3 |
| 9337 | 11 | 96 | 273 | 52 | 87 | | 12 | 9 | 3429 | 21 | 18 | 6795 | 19 | 4 | | 60 | 59 |
| 341 | 46 | 85 | 289 | 17 | 100 | 1027 | 19 | 18 | 3571 | 35 | 34 | 6813 | 29 | 26 | 10647 | 22 | 1 |
| 349 | 18 | 95 | 10301 | 10 | 101 | 1115 | 11 | 6 | 3635 | 18 | 13 | 6851 | 19 | 2 | 10717 | 26 | 19 |
| 377 | 56 | 79 | 313 | 43 | 92 | 1141 | 20 | 19 | 3753 | 16 | 7 | 6965 | 24 | 19 | 10719 | 36 | 33 |
| 397 | 66 | 71 | 321 | 36 | 95 | 1197 | 13 | 10 | 3781 | 36 | 35 | 7057 | 49 | 48 | 10981 | 61 | 60 |
| 9409 | 65 | 72 | 333 | 27 | 98 | 1261 | 21 | 20 | 3789 | 22 | 19 | 7271 | 20 | 9 | 11167 | 23 | 10 |
| 413 | 2 | 97 | 337 | 64 | 79 | 1267 | 11 | 4 | 3913 | 17 | 10 | 7273 | 22 | 15 | 11347 | 62 | 61 |
| 421 | 45 | 86 | 357 | 39 | 94 | 1323 | 11 | 2 | 3971 | 16 | 5 | 7317 | 30 | 27 | 11349 | 37 | 34 |
| 433 | 28 | 93 | 369 | 63 | 80 | 1385 | 12 | 7 | 3997 | 37 | 36 | 7351 | 50 | 49 | 11375 | 30 | 25 |
| 437 | 34 | 91 | 10429 | 5 | 102 | 1387 | 22 | 21 | 4069 | 16 | 3 | 7533 | 21 | 12 | 11529 | 25 | 16 |
| 461 | 25 | 94 | 433 | 32 | 97 | 1413 | 14 | 11 | 4095 | 16 | 1 | 7625 | 25 | 20 | 11627 | 24 | 13 |
| 473 | 8 | 97 | 453 | 7 | 102 | 1519 | 23 | 22 | 4115 | 19 | 14 | 7651 | 51 | 50 | 11655 | 23 | 8 |
| 497 | 61 | 76 | 457 | 16 | 101 | 1603 | 12 | 5 | 4167 | 23 | 20 | 7657 | 20 | 7 | 11683 | 27 | 20 |
| 9521 | 40 | 89 | 477 | 26 | 99 | 1647 | 15 | 12 | 4219 | 38 | 37 | 7839 | 31 | 28 | 11719 | 63 | 62 |
| 533 | 53 | 82 | 10501 | 49 | 90 | 1657 | 24 | 23 | 4401 | 17 | 8 | 7875 | 20 | 5 | 11951 | 23 | 6 |
| 9601 | 24 | 95 | 513 | 72 | 73 | 1685 | 13 | 8 | 4447 | 39 | 38 | 7957 | 52 | 51 | 11997 | 38 | 35 |
| 613 | 3 | 98 | 529 | 23 | 100 | 1701 | 12 | 3 | 4501 | 18 | 11 | 7973 | 20 | 3 | 12097 | 64 | 63 |

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4. Ungerade Zahlen als Summe zweier Kubikzahlen.

| N | x | y | N | x | y | N | x | y |
|---|---|---|---|---|---|---|---|---|
| 9 | 1 | 2 | 4075 | 11 | 14 | 10745 | 17 | 18 |
| 35 | 3 | 2 | 4097 | 1 | 16 | 10773 | 5 | 22 |
| 65 | 1 | 4 | 4123 | 3 | 16 | 10955 | 16 | 19 |
| 91 | 3 | 4 | 4221 | 5 | 16 | 10989 | 12 | 21 |
| 133 | 2 | 5 | 4375 | 10 | 15 | 10991 | 7 | 22 |
| 189 | 4 | 5 | 4439 | 7 | 16 | 11375 | 15 | 20 |
| 217 | 1 | 6 | 4825 | 9 | 16 | 11377 | 9 | 22 |
| 243 | 3 | 6 | 4921 | 2 | 17 | 11979 | 11 | 22 |
| 341 | 5 | 6 | 4941 | 13 | 14 | 12005 | 14 | 21 |
| 351 | 2 | 7 | 4977 | 4 | 17 | 12175 | 2 | 23 |
| 407 | 4 | 7 | 5103 | 12 | 15 | 12231 | 4 | 23 |
| 513 | 1 | 8 | 5129 | 6 | 17 | 12383 | 6 | 23 |
| 539 | 3 | 8 | 5425 | 8 | 17 | 12679 | 8 | 23 |
| 559 | 6 | 7 | 5427 | 11 | 16 | 12691 | 18 | 19 |
| 637 | 5 | 8 | 5833 | 1 | 18 | 12845 | 13 | 22 |
| 737 | 2 | 9 | 5859 | 3 | 18 | 12913 | 17 | 20 |
| 793 | 4 | 9 | 5913 | 10 | 17 | 13167 | 10 | 23 |
| 855 | 7 | 8 | 5957 | 5 | 18 | 13357 | 16 | 21 |
| 945 | 6 | 9 | 6119 | 14 | 15 | 13825 | 1 | 24 |
| 1001 | 1 | 10 | 6175 | 7 | 18 | 13851 | 3 | 24 |
| 1027 | 3 | 10 | 6293 | 13 | 16 | 13895 | 12 | 23 |
| 1125 | 5 | 10 | 6561 | 9 | 18 | 13949 | 5 | 24 |
| 1241 | 8 | 9 | 6641 | 12 | 17 | 14023 | 15 | 22 |
| 1339 | 2 | 11 | 6867 | 2 | 19 | 14167 | 7 | 24 |
| 1343 | 7 | 10 | 6923 | 4 | 19 | 14553 | 9 | 24 |
| 1395 | 4 | 11 | 7075 | 6 | 19 | 14859 | 19 | 20 |
| 1547 | 6 | 11 | 7163 | 11 | 18 | 14911 | 14 | 23 |
| 1729 | 9 | 10 | 7371 | 8 | 19 | 15093 | 18 | 21 |
| 1755 | 3 | 12 | 7471 | 15 | 16 | 15155 | 11 | 24 |
| 1843 | 8 | 11 | 7657 | 14 | 17 | 15561 | 17 | 22 |
| 1853 | 5 | 12 | 7859 | 10 | 19 | 15663 | 2 | 25 |
| 2071 | 7 | 12 | 8001 | 1 | 20 | 15689 | 4 | 25 |
| 2205 | 2 | 13 | 8027 | 3 | 20 | 15841 | 6 | 25 |
| 2261 | 4 | 13 | 8029 | 13 | 18 | 16021 | 13 | 24 |
| 2331 | 10 | 11 | 8125 | 5 | 20 | 16137 | 8 | 25 |
| 2413 | 6 | 13 | 8343 | 7 | 20 | 16263 | 16 | 23 |
| 2457 | 9 | 12 | 8587 | 12 | 19 | 16625 | 10 | 25 |
| 2709 | 8 | 13 | 8729 | 9 | 20 | 17199 | 15 | 24 |
| 2745 | 1 | 14 | 9009 | 16 | 17 | 17261 | 20 | 21 |
| 2771 | 3 | 14 | 9207 | 15 | 18 | 17353 | 12 | 25 |
| 2869 | 5 | 14 | 9269 | 2 | 21 | 17507 | 19 | 22 |
| 3059 | 11 | 12 | 9325 | 4 | 21 | 17577 | 1 | 26 |
| 3087 | 7 | 14 | 9331 | 11 | 20 | 17603 | 3 | 26 |
| 3197 | 10 | 13 | 9477 | 6 | 21 | 17701 | 5 | 26 |
| 3383 | 2 | 15 | 9603 | 14 | 19 | 17919 | 7 | 26 |
| 3439 | 4 | 15 | 9773 | 8 | 21 | 17999 | 18 | 23 |
| 3473 | 9 | 14 | 10197 | 13 | 20 | 18305 | 9 | 26 |
| 3591 | 6 | 15 | 10261 | 10 | 21 | 18369 | 14 | 25 |
| 3887 | 8 | 15 | 10649 | 1 | 22 | 18737 | 17 | 24 |
| 3925 | 12 | 13 | 10675 | 3 | 22 | 18907 | 11 | 26 |

5. Vierziffrige additiv kongruente Endungen für Zahlen, die mit 3 oder 7 endigen.

| a | Form von b | Kongruente Endung | Form von b | Kongruente Endung |
|---|---|---|---|---|
| 03 | 4n, 4n+3 | 0001 | 4n+1, 4n+2 | 0041 |
| 07 | 4n, 4n+1 | 0009 | 4n+2, 4n+3 | 0049 |
| 13 | 2n | 0036 | 2n+1 | 0016 |
| 17 | 2n | 0064 | 2n+1 | 0004 |
| 23 | 4n, 4n+1 | 0041 | 4n+2, 4n+3 | 0001 |
| 27 | 4n, 4n+3 | 0009 | 4n+1, 4n+2 | 0049 |
| 33 | 2n | 0016 | 2n+1 | 0036 |
| 37 | 2n | 0004 | 2n+1 | 0064 |
| 43 | 4n, 4n+3 | 0041 | 4n+1, 4n+2 | 0001 |
| 47 | 4n, 4n+1 | 0049 | 4n+2, 4n+3 | 0009 |
| 53 | 2n | 0036 | 2n+1 | 0016 |
| 57 | 2n | 0064 | 2n+1 | 0004 |
| 63 | 4n, 4n+1 | 0001 | 4n+2, 4n+3 | 0041 |
| 67 | 4n, 4n+3 | 0049 | 4n+1, 4n+2 | 0009 |
| 73 | 2n | 0016 | 2n+1 | 0036 |
| 77 | 2n | 0004 | 2n+1 | 0064 |
| 83 | 4n, 4n+3 | 0001 | 4n+1, 4n+2 | 0041 |
| 87 | 4n, 4n+1 | 0009 | 4n+2, 4n+3 | 0049 |
| 93 | 2n | 0036 | 2n+1 | 0016 |
| 97 | 2n | 0064 | 2n+1 | 0004 |

6. Additiv kongruente Endungen für Zahlen von der Form 4n+1, die auf 1 oder 9 endigen.

| a | Form von b | Kongruente Endungen |
|---|---|---|
| 01 09 41 49 81 89<br>21 29 61 69 | 2n<br>2n+1 | 0000 0400 1600<br>2400 3600 4400<br>5600 6400 7600<br>8400 9600 |
| 01 09 41 49 81 89<br>21 29 61 69 | 2n+1<br>2n | 0100 0900 2100<br>2500 2900 4100<br>4900 6100 6900<br>8100 8900 |
| 11 59 79 91<br>19 51<br>31 99<br>39 71 | 4n, 4n+3<br>4n+1,4n+2<br>4n+2,4n+3<br>4n, 4n+1 | 0025 1215 2025<br>3225 4025 5225<br>5625 6025 7225<br>8025 9225 |
| 11 59 79 91<br>19 51<br>31 99<br>39 71 | 4n+1,4n+2<br>4n, 4n+3<br>4n, 4n+1<br>4n+2,4n+3 | 0225 0625 1025<br>2225 3025 4225<br>5025 6225 7025<br>8225 9025 |

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7. Zweite Gruppe vierziffriger additiv kongruenter Endungen, für Zahlen die mit 1 oder 9 endigen.

| b | I. a=01, p=24 | II. a=09, p=16 |
|---|---|---|
| 00 50 | 01 06 10 22 30 42 50 62 70 82 90 | 00 12 20 32 40 52 56 60 72 80 92 |
| 01 51 | 11 19 31 39 51 55 59 71 79 91 99 | 01 05 09 21 29 41 49 61 69 81 89 |
| 02 52 | 10 18 30 38 50 54 58 70 78 90 98 | 00 04 08 20 28 40 48 60 68 80 88 |
| 03 53 | 03 07 19 27 39 47 59 67 79 87 99 | 09 17 29 37 49 53 57 69 77 89 97 |
| 04 54 | 02 06 18 26 38 46 58 66 78 86 98 | 08 16 28 36 48 52 56 68 76 88 96 |
| 05 55 | 07 15 27 35 47 51 55 67 75 87 95 | 01 05 17 25 37 45 57 65 77 85 97 |
| 06 56 | 06 14 26 34 46 50 54 66 74 86 94 | 00 04 16 24 36 44 56 64 76 84 96 |
| 07 57 | 03 15 23 35 43 55 63 75 83 95 99 | 05 13 25 33 45 59 53 65 73 85 93 |
| 08 58 | 02 14 22 34 42 54 62 74 82 94 98 | 04 12 24 32 44 48 52 64 72 84 92 |
| 09 59 | 03 11 23 31 43 47 51 63 71 83 91 | 01 13 21 33 41 53 61 73 81 93 97 |
| 10 60 | 02 10 22 30 42 46 50 62 70 82 90 | 00 12 20 32 40 52 60 72 80 92 96 |
| 11 61 | 11 19 31 39 51 59 71 79 91 95 99 | 01 09 21 29 41 45 49 61 69 81 89 |
| 12 62 | 10 18 30 38 50 58 70 78 90 94 98 | 00 08 20 28 40 44 48 60 68 80 88 |
| 13 63 | 07 19 27 39 43 47 59 67 79 87 99 | 09 17 29 37 49 57 69 77 89 93 97 |
| 14 64 | 06 18 26 38 42 46 58 66 78 86 98 | 08 16 28 36 48 56 68 76 88 92 96 |
| 15 65 | 07 15 27 35 47 55 67 75 87 91 95 | 05 17 25 37 41 45 57 65 77 85 97 |
| 16 66 | 06 14 26 34 46 54 66 74 86 90 94 | 04 16 24 36 40 44 56 64 76 84 96 |
| 17 67 | 03 15 23 35 39 43 55 63 75 83 95 | 05 13 25 33 45 53 65 73 85 89 93 |
| 18 68 | 02 14 22 34 38 42 54 62 74 82 94 | 04 12 24 32 44 52 64 72 84 88 92 |
| 19 69 | 03 11 23 31 43 51 63 71 83 87 91 | 01 13 21 33 37 41 53 61 73 81 93 |
| 20 70 | 02 10 22 30 42 50 62 70 82 86 90 | 00 12 20 32 36 40 52 60 72 80 92 |
| 21 71 | 11 19 31 35 39 51 59 71 79 91 99 | 01 09 21 29 41 49 61 69 81 85 89 |
| 22 72 | 10 18 30 34 38 50 58 70 78 90 98 | 00 08 20 28 40 48 60 68 80 84 88 |
| 23 73 | 07 19 27 33 39 47 59 67 79 87 99 | 09 17 29 33 37 49 57 69 77 89 97 |
| 24 74 | 06 18 26 32 38 46 58 66 78 86 98 | 08 16 28 32 36 48 56 68 76 88 96 |
| 25 75 | 07 15 27 35 47 55 67 75 81 87 95 | 05 17 25 37 45 57 65 77 81 85 97 |
| 26 76 | 06 14 26 34 46 54 66 74 80 86 94 | 04 16 24 36 44 56 64 76 80 84 96 |
| 27 77 | 03 15 23 35 43 55 63 75 79 83 95 | 05 13 25 29 33 45 53 65 73 85 93 |
| 28 78 | 02 14 22 34 42 54 62 74 78 82 94 | 04 12 24 28 32 44 52 64 72 84 92 |
| 29 79 | 03 11 23 27 31 43 51 63 71 83 91 | 01 13 21 33 41 53 61 73 77 81 93 |
| 30 80 | 02 10 22 26 30 42 50 62 70 82 90 | 00 12 20 32 40 52 60 72 76 80 92 |
| 31 81 | 11 19 31 39 51 59 71 75 79 91 99 | 01 09 21 25 29 41 49 61 69 81 89 |
| 32 82 | 10 18 30 38 50 58 70 74 78 90 98 | 00 08 20 24 28 40 48 60 68 80 88 |
| 33 83 | 07 19 23 27 39 47 59 67 79 87 99 | 09 17 29 37 49 57 69 73 77 89 97 |
| 34 84 | 06 18 22 26 38 46 58 66 78 86 98 | 08 16 28 36 48 56 68 72 76 88 96 |
| 35 85 | 07 15 27 35 47 55 67 71 75 87 95 | 05 17 21 25 37 45 57 65 77 85 97 |
| 36 86 | 06 14 26 34 46 54 66 70 74 86 94 | 04 16 20 24 36 44 56 64 76 84 96 |
| 37 87 | 03 15 19 23 35 43 55 63 75 83 95 | 05 13 25 33 45 53 65 69 73 85 93 |
| 38 88 | 02 14 18 22 34 42 54 62 74 82 94 | 04 12 24 32 44 52 64 68 72 84 92 |
| 39 89 | 03 11 23 31 43 51 63 67 71 83 91 | 01 13 17 21 33 41 53 61 73 81 93 |
| 40 90 | 02 10 22 30 42 50 62 66 70 82 90 | 00 12 16 20 32 40 52 60 72 80 92 |
| 41 91 | 11 15 19 31 39 51 59 71 79 91 99 | 01 09 21 33 41 53 61 65 73 81 93 |
| 42 92 | 10 14 18 30 38 50 58 70 78 90 98 | 00 08 20 32 40 52 60 64 72 80 92 |
| 43 93 | 07 19 27 39 47 59 63 67 79 87 99 | 09 13 17 29 37 49 57 69 77 89 97 |
| 44 94 | 06 18 26 38 46 58 62 66 78 86 98 | 08 12 16 28 36 48 56 68 76 88 96 |
| 45 95 | 07 11 15 27 35 47 55 67 75 87 95 | 05 17 25 37 45 57 61 65 77 85 97 |
| 46 96 | 06 10 14 26 34 46 54 66 74 86 94 | 04 16 24 36 44 56 60 64 76 84 96 |
| 47 97 | 03 15 23 35 43 55 59 63 75 83 95 | 05 09 13 25 33 45 53 65 73 85 93 |
| 48 98 | 02 14 22 34 42 54 58 62 74 82 94 | 04 08 12 24 32 44 52 64 72 84 92 |
| 49 99 | 03 07 11 23 31 43 51 63 71 83 91 | 01 13 21 33 41 53 57 61 73 81 93 |



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| b | III. a=11, 19, 51, 59, 91, 99 p=89, 81, 49, 41, 09, 01 | | | | | | | | | | | IV. a=31, 39, 71, 79 p=69, 61, 29, 21 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00 | 75 | 00 | 08 | 20 | 24 | 28 | 40 | 48 | 60 | 68 | 80 | 88 | 03 | 15 | 23 | 35 | 43 | 55 | 63 | 75 | 83 | 95 | 99 |
| 02 | 77 | 06 | 18 | 22 | 26 | 38 | 46 | 58 | 66 | 78 | 86 | 98 | 01 | 13 | 21 | 33 | 41 | 53 | 61 | 73 | 81 | 93 | 97 |
| 04 | 79 | 04 | 16 | 20 | 24 | 36 | 44 | 56 | 64 | 76 | 84 | 96 | 11 | 19 | 31 | 39 | 51 | 59 | 71 | 79 | 91 | 95 | 99 |
| 06 | 81 | 02 | 14 | 18 | 22 | 34 | 42 | 54 | 62 | 74 | 82 | 94 | 09 | 17 | 29 | 37 | 49 | 57 | 69 | 77 | 89 | 93 | 97 |
| 08 | 83 | 00 | 12 | 16 | 20 | 32 | 40 | 52 | 60 | 72 | 80 | 92 | 07 | 15 | 27 | 35 | 47 | 55 | 67 | 75 | 87 | 91 | 95 |
| 10 | 85 | 10 | 14 | 18 | 30 | 38 | 50 | 58 | 70 | 78 | 90 | 98 | 05 | 13 | 25 | 33 | 45 | 53 | 65 | 73 | 85 | 89 | 93 |
| 12 | 87 | 08 | 12 | 16 | 28 | 36 | 48 | 56 | 68 | 76 | 88 | 96 | 03 | 11 | 23 | 31 | 43 | 51 | 63 | 71 | 83 | 87 | 91 |
| 14 | 89 | 06 | 10 | 14 | 26 | 34 | 46 | 54 | 66 | 74 | 86 | 94 | 01 | 09 | 21 | 29 | 41 | 49 | 61 | 69 | 81 | 85 | 89 |
| 16 | 91 | 04 | 08 | 12 | 24 | 32 | 44 | 52 | 64 | 72 | 84 | 92 | 07 | 19 | 27 | 39 | 47 | 59 | 67 | 79 | 83 | 87 | 99 |
| 18 | 93 | 02 | 06 | 10 | 22 | 30 | 42 | 50 | 62 | 70 | 82 | 90 | 05 | 17 | 25 | 37 | 45 | 57 | 65 | 77 | 81 | 85 | 97 |
| 20 | 95 | 00 | 04 | 08 | 20 | 28 | 40 | 48 | 60 | 68 | 80 | 88 | 03 | 15 | 23 | 35 | 43 | 55 | 63 | 75 | 79 | 83 | 95 |
| 22 | 97 | 02 | 06 | 18 | 26 | 38 | 46 | 58 | 66 | 78 | 86 | 98 | 01 | 13 | 21 | 33 | 41 | 53 | 61 | 73 | 77 | 81 | 93 |
| 24 | 99 | 00 | 04 | 16 | 24 | 36 | 44 | 56 | 64 | 76 | 84 | 96 | 11 | 19 | 31 | 39 | 51 | 59 | 71 | 75 | 79 | 91 | 99 |
| 26 | 01 | 02 | 14 | 22 | 34 | 42 | 54 | 62 | 74 | 82 | 94 | 98 | 09 | 17 | 29 | 37 | 49 | 57 | 69 | 73 | 77 | 89 | 97 |
| 28 | 03 | 00 | 12 | 20 | 32 | 40 | 52 | 60 | 72 | 80 | 92 | 96 | 07 | 15 | 27 | 35 | 47 | 55 | 67 | 71 | 75 | 87 | 95 |
| 30 | 05 | 10 | 18 | 30 | 38 | 50 | 58 | 70 | 78 | 90 | 94 | 98 | 05 | 13 | 25 | 33 | 45 | 53 | 65 | 69 | 73 | 85 | 93 |
| 32 | 07 | 08 | 16 | 28 | 36 | 48 | 56 | 68 | 76 | 88 | 92 | 96 | 03 | 11 | 23 | 31 | 43 | 51 | 63 | 67 | 71 | 83 | 91 |
| 34 | 09 | 06 | 14 | 26 | 34 | 46 | 54 | 66 | 74 | 86 | 90 | 94 | 01 | 09 | 21 | 29 | 41 | 49 | 61 | 65 | 69 | 81 | 89 |
| 36 | 11 | 04 | 12 | 24 | 32 | 44 | 52 | 64 | 72 | 84 | 88 | 92 | 07 | 19 | 27 | 39 | 47 | 59 | 63 | 67 | 79 | 87 | 99 |
| 38 | 13 | 02 | 10 | 22 | 30 | 42 | 50 | 62 | 70 | 82 | 86 | 90 | 05 | 17 | 25 | 37 | 45 | 57 | 61 | 65 | 77 | 85 | 97 |
| 40 | 15 | 00 | 08 | 20 | 28 | 40 | 48 | 60 | 68 | 80 | 84 | 88 | 03 | 15 | 23 | 35 | 43 | 55 | 59 | 63 | 75 | 83 | 95 |
| 42 | 17 | 06 | 18 | 26 | 38 | 46 | 58 | 66 | 78 | 82 | 86 | 98 | 01 | 13 | 21 | 33 | 41 | 53 | 57 | 61 | 73 | 81 | 93 |
| 44 | 19 | 04 | 16 | 24 | 36 | 44 | 56 | 64 | 76 | 80 | 84 | 96 | 11 | 19 | 31 | 39 | 51 | 55 | 59 | 71 | 79 | 91 | 99 |
| 46 | 21 | 02 | 14 | 22 | 34 | 42 | 54 | 62 | 74 | 78 | 82 | 94 | 09 | 17 | 29 | 37 | 49 | 53 | 57 | 69 | 77 | 89 | 97 |
| 48 | 23 | 00 | 12 | 20 | 32 | 40 | 52 | 60 | 72 | 76 | 80 | 92 | 07 | 15 | 27 | 35 | 47 | 51 | 55 | 67 | 75 | 87 | 95 |
| 50 | 25 | 10 | 18 | 30 | 38 | 50 | 58 | 70 | 74 | 78 | 90 | 98 | 05 | 13 | 25 | 33 | 45 | 49 | 53 | 65 | 73 | 85 | 93 |
| 52 | 27 | 08 | 16 | 28 | 36 | 48 | 56 | 68 | 72 | 76 | 88 | 96 | 03 | 11 | 23 | 31 | 43 | 47 | 51 | 63 | 71 | 83 | 91 |
| 54 | 29 | 06 | 14 | 26 | 34 | 46 | 54 | 66 | 70 | 74 | 86 | 94 | 01 | 09 | 21 | 29 | 41 | 45 | 49 | 61 | 69 | 81 | 89 |
| 56 | 31 | 04 | 12 | 24 | 32 | 44 | 52 | 64 | 68 | 72 | 84 | 92 | 07 | 19 | 27 | 39 | 43 | 47 | 59 | 67 | 79 | 87 | 99 |
| 58 | 33 | 02 | 10 | 22 | 30 | 42 | 50 | 62 | 66 | 70 | 82 | 90 | 05 | 17 | 25 | 37 | 41 | 45 | 57 | 65 | 77 | 85 | 97 |
| 60 | 35 | 00 | 08 | 20 | 28 | 40 | 48 | 60 | 64 | 68 | 80 | 88 | 03 | 15 | 23 | 35 | 39 | 43 | 55 | 63 | 75 | 83 | 95 |
| 62 | 37 | 06 | 18 | 26 | 38 | 46 | 58 | 62 | 66 | 78 | 86 | 98 | 01 | 13 | 21 | 33 | 37 | 41 | 53 | 61 | 73 | 81 | 93 |
| 64 | 39 | 04 | 16 | 24 | 36 | 44 | 56 | 60 | 64 | 76 | 84 | 96 | 11 | 19 | 31 | 35 | 39 | 51 | 59 | 71 | 79 | 91 | 99 |
| 66 | 41 | 02 | 14 | 22 | 34 | 42 | 54 | 58 | 62 | 74 | 82 | 94 | 09 | 17 | 29 | 33 | 37 | 49 | 57 | 69 | 77 | 89 | 97 |
| 68 | 43 | 00 | 12 | 20 | 32 | 40 | 52 | 56 | 60 | 72 | 80 | 92 | 07 | 15 | 27 | 31 | 35 | 47 | 55 | 67 | 75 | 87 | 95 |
| 70 | 45 | 10 | 18 | 30 | 38 | 50 | 54 | 58 | 70 | 78 | 90 | 98 | 05 | 13 | 25 | 29 | 33 | 45 | 53 | 65 | 73 | 85 | 93 |
| 72 | 47 | 08 | 16 | 28 | 36 | 48 | 52 | 56 | 68 | 76 | 88 | 96 | 03 | 11 | 23 | 27 | 31 | 43 | 51 | 63 | 71 | 83 | 91 |
| 74 | 49 | 06 | 14 | 26 | 34 | 46 | 50 | 54 | 66 | 74 | 86 | 94 | 01 | 09 | 21 | 25 | 29 | 41 | 49 | 61 | 69 | 81 | 89 |
| 76 | 51 | 04 | 12 | 24 | 32 | 44 | 48 | 52 | 64 | 72 | 84 | 92 | 07 | 19 | 23 | 27 | 39 | 47 | 59 | 67 | 79 | 87 | 99 |
| 78 | 53 | 02 | 10 | 22 | 30 | 42 | 46 | 50 | 62 | 70 | 82 | 90 | 05 | 17 | 21 | 25 | 37 | 45 | 57 | 65 | 77 | 85 | 97 |
| 80 | 55 | 00 | 08 | 20 | 28 | 40 | 44 | 48 | 60 | 68 | 80 | 88 | 03 | 15 | 19 | 23 | 35 | 43 | 55 | 63 | 75 | 83 | 95 |
| 82 | 57 | 06 | 18 | 26 | 38 | 42 | 46 | 58 | 66 | 78 | 86 | 98 | 01 | 13 | 17 | 21 | 33 | 41 | 53 | 61 | 73 | 81 | 93 |
| 84 | 59 | 04 | 16 | 24 | 36 | 40 | 44 | 56 | 64 | 76 | 84 | 96 | 11 | 15 | 19 | 31 | 39 | 51 | 59 | 71 | 79 | 91 | 99 |
| 86 | 61 | 02 | 14 | 22 | 34 | 38 | 42 | 54 | 62 | 74 | 82 | 94 | 09 | 13 | 17 | 29 | 37 | 49 | 57 | 69 | 77 | 89 | 97 |
| 88 | 63 | 00 | 12 | 20 | 32 | 36 | 40 | 52 | 60 | 72 | 80 | 92 | 07 | 11 | 15 | 27 | 35 | 47 | 55 | 67 | 75 | 87 | 95 |
| 90 | 65 | 10 | 18 | 30 | 34 | 38 | 50 | 58 | 70 | 78 | 90 | 98 | 05 | 09 | 13 | 25 | 33 | 45 | 53 | 65 | 73 | 85 | 93 |
| 92 | 67 | 08 | 16 | 28 | 32 | 36 | 48 | 56 | 68 | 76 | 88 | 96 | 03 | 07 | 11 | 23 | 31 | 43 | 51 | 63 | 71 | 83 | 91 |
| 94 | 69 | 06 | 14 | 26 | 30 | 34 | 46 | 54 | 66 | 74 | 86 | 94 | 01 | 05 | 09 | 21 | 29 | 41 | 49 | 61 | 69 | 81 | 89 |
| 96 | 71 | 04 | 12 | 24 | 28 | 32 | 44 | 52 | 64 | 72 | 84 | 92 | 03 | 07 | 19 | 27 | 39 | 47 | 59 | 67 | 79 | 87 | 99 |
| 98 | 73 | 02 | 10 | 22 | 26 | 30 | 42 | 50 | 62 | 70 | 82 | 90 | 01 | 05 | 17 | 25 | 37 | 45 | 57 | 65 | 77 | 85 | 97 |

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| b | V. a=21, p=04 | VI. a=29, 49, 61, 81 p=96, 76, 64, 44 |
|---|---|---|
| 00 50 | 00 12 20 32 40 52 56 60 72 80 92 | 01 05 09 21 29 41 49 61 69 81 89 |
| 01 51 | 11 19 31 39 51 55 59 71 79 91 99 | 00 04 08 20 28 40 48 60 68 80 88 |
| 02 52 | 00 04 08 20 28 40 48 60 68 80 88 | 09 17 29 37 49 53 57 69 77 89 97 |
| 03 53 | 03 07 19 27 39 47 59 67 79 87 99 | 08 16 28 36 48 52 56 68 76 88 96 |
| 04 54 | 08 16 28 36 48 52 56 68 76 88 96 | 01 05 17 25 37 45 57 65 77 85 97 |
| 05 55 | 07 15 27 35 47 51 55 67 75 87 95 | 00 04 16 24 36 44 56 64 76 84 96 |
| 06 56 | 00 04 16 24 36 44 56 64 76 84 96 | 05 13 25 33 45 49 53 65 73 85 93 |
| 07 57 | 03 15 23 35 43 55 63 75 83 95 99 | 04 12 24 32 44 48 52 64 72 84 92 |
| 08 58 | 04 12 24 32 44 48 52 64 72 84 92 | 01 13 21 33 41 53 61 73 81 93 97 |
| 09 59 | 03 11 23 31 43 47 51 63 71 83 91 | 00 12 20 32 40 52 60 72 80 92 96 |
| 10 60 | 00 12 20 32 40 52 60 72 80 92 96 | 01 09 21 29 41 45 49 61 69 81 89 |
| 11 61 | 11 19 31 39 51 59 71 79 91 95 99 | 00 08 20 28 40 44 48 60 68 80 88 |
| 12 62 | 00 08 20 28 40 44 48 60 68 80 88 | 09 17 29 37 49 57 69 77 89 93 97 |
| 13 63 | 07 19 27 39 43 47 59 67 79 87 99 | 08 16 28 36 48 56 68 76 88 92 96 |
| 14 64 | 08 16 28 36 48 56 68 76 88 92 96 | 05 17 25 37 41 45 57 65 77 85 97 |
| 15 65 | 07 15 27 35 47 55 67 75 87 91 95 | 04 16 24 36 40 44 56 64 76 84 96 |
| 16 66 | 04 16 24 36 40 44 56 64 76 84 96 | 05 13 25 33 45 53 65 73 85 89 93 |
| 17 67 | 03 15 23 35 39 43 55 63 75 83 95 | 04 12 24 32 44 52 64 72 84 88 92 |
| 18 68 | 04 12 24 32 44 52 64 72 84 88 92 | 01 13 21 33 37 41 53 61 73 81 93 |
| 19 69 | 03 11 23 31 43 51 63 71 83 87 91 | 00 12 20 32 36 40 52 60 72 80 92 |
| 20 70 | 00 12 20 32 36 40 52 60 72 80 92 | 01 09 21 29 41 49 61 69 81 85 89 |
| 21 71 | 11 19 31 35 39 51 59 71 79 91 99 | 00 08 20 28 40 48 60 68 80 84 88 |
| 22 72 | 00 08 20 28 40 48 60 68 80 84 88 | 09 17 29 33 37 49 57 69 77 89 97 |
| 23 73 | 07 19 27 39 47 59 67 79 83 87 99 | 08 16 28 32 36 48 56 68 76 88 96 |
| 24 74 | 08 16 28 32 36 48 56 68 76 88 96 | 05 17 25 37 45 57 65 77 81 85 97 |
| 25 75 | 07 15 27 31 35 47 55 67 75 87 95 | 04 16 24 36 44 56 64 76 80 84 96 |
| 26 76 | 04 16 24 36 44 56 64 76 80 84 96 | 05 13 25 29 33 45 53 65 73 85 93 |
| 27 77 | 03 15 23 35 43 55 63 75 79 83 95 | 04 12 24 28 32 44 52 64 72 84 92 |
| 28 78 | 04 12 24 28 32 44 52 64 72 84 92 | 01 13 21 33 41 53 61 73 77 81 93 |
| 29 79 | 03 11 23 27 31 43 51 63 71 83 91 | 00 12 20 32 40 52 60 72 76 80 92 |
| 30 80 | 00 12 20 32 40 52 60 72 76 80 92 | 01 09 21 25 29 41 49 61 69 81 89 |
| 31 81 | 11 19 31 39 51 59 71 75 79 91 99 | 00 08 20 24 28 40 48 60 68 80 88 |
| 32 82 | 00 08 20 24 28 40 48 60 68 80 88 | 09 17 29 37 49 47 69 73 77 89 97 |
| 33 83 | 07 19 23 27 39 47 59 67 79 87 99 | 08 16 28 36 48 56 68 72 76 88 96 |
| 34 84 | 08 16 28 36 48 56 68 72 76 88 96 | 05 17 21 25 37 45 57 65 77 85 97 |
| 35 85 | 07 15 27 35 47 55 67 71 75 87 95 | 04 16 20 24 36 44 56 64 76 84 96 |
| 36 86 | 04 16 20 24 36 44 56 64 76 84 96 | 05 13 25 33 45 53 65 69 73 85 93 |
| 37 87 | 03 15 19 23 35 43 55 63 75 83 95 | 04 12 24 32 44 52 64 68 72 84 92 |
| 38 88 | 04 12 24 32 44 52 64 68 72 84 92 | 01 13 17 21 33 41 53 61 73 81 98 |
| 39 89 | 03 11 23 31 43 51 63 67 71 83 91 | 00 12 16 20 32 40 52 60 72 80 92 |
| 40 90 | 00 12 16 20 32 40 52 60 72 80 92 | 01 09 21 33 41 53 61 65 73 81 93 |
| 41 91 | 11 15 19 31 39 51 59 71 79 91 99 | 00 08 20 32 40 52 60 64 72 80 92 |
| 42 92 | 00 08 20 28 40 48 60 64 68 80 88 | 09 13 17 29 37 49 57 69 77 89 97 |
| 43 93 | 07 19 27 39 47 59 63 67 79 87 99 | 08 12 16 28 36 48 56 68 76 88 96 |
| 44 94 | 08 12 16 28 36 48 56 68 76 88 96 | 05 17 25 37 45 57 61 65 77 85 97 |
| 45 95 | 07 11 15 27 35 47 55 67 75 87 95 | 04 16 24 36 44 56 60 64 76 84 96 |
| 46 96 | 04 16 24 36 44 56 60 64 76 84 96 | 05 09 13 25 33 45 53 65 73 85 93 |
| 47 97 | 03 15 23 35 43 55 59 63 75 83 95 | 04 08 12 24 32 44 52 64 72 84 92 |
| 48 98 | 04 08 12 24 32 44 52 64 72 84 92 | 01 13 21 33 41 53 57 61 73 81 93 |
| 49 99 | 03 07 11 23 31 43 51 63 71 83 91 | 00 12 20 32 40 52 56 60 72 80 92 |



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| b | VII. a=41, 89; p=84, 36 | | | | | | | | | | | | VIII. a=69, p=56 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00 | 50 | 11 | 19 | 31 | 39 | 51 | 55 | 59 | 71 | 79 | 91 | 99 | 11 | 19 | 31 | 39 | 51 | 55 | 59 | 71 | 79 | 91 | 99 |
| 01 | 51 | 00 | 04 | 08 | 20 | 28 | 40 | 48 | 60 | 68 | 80 | 88 | 10 | 18 | 30 | 38 | 50 | 54 | 58 | 70 | 78 | 90 | 98 |
| 02 | 52 | 03 | 07 | 19 | 27 | 39 | 47 | 59 | 67 | 79 | 87 | 99 | 03 | 07 | 19 | 27 | 39 | 47 | 59 | 67 | 79 | 87 | 99 |
| 03 | 53 | 08 | 16 | 28 | 36 | 48 | 52 | 56 | 68 | 76 | 88 | 96 | 02 | 06 | 18 | 26 | 38 | 46 | 58 | 66 | 78 | 86 | 98 |
| 04 | 54 | 07 | 15 | 27 | 35 | 47 | 51 | 55 | 67 | 75 | 87 | 95 | 07 | 15 | 27 | 35 | 47 | 51 | 55 | 67 | 75 | 87 | 95 |
| 05 | 55 | 00 | 04 | 16 | 24 | 36 | 44 | 56 | 64 | 76 | 84 | 96 | 06 | 14 | 26 | 34 | 46 | 50 | 54 | 66 | 74 | 86 | 94 |
| 06 | 56 | 03 | 15 | 23 | 35 | 43 | 55 | 63 | 75 | 83 | 95 | 99 | 03 | 15 | 23 | 35 | 43 | 55 | 63 | 75 | 83 | 95 | 99 |
| 07 | 57 | 04 | 12 | 24 | 32 | 44 | 48 | 52 | 64 | 72 | 84 | 92 | 02 | 14 | 22 | 34 | 42 | 54 | 62 | 74 | 82 | 94 | 98 |
| 08 | 58 | 03 | 11 | 23 | 31 | 43 | 47 | 51 | 63 | 71 | 83 | 91 | 03 | 11 | 23 | 31 | 43 | 47 | 51 | 63 | 71 | 83 | 91 |
| 09 | 59 | 00 | 12 | 20 | 32 | 40 | 52 | 60 | 72 | 80 | 92 | 96 | 02 | 10 | 22 | 30 | 42 | 46 | 50 | 62 | 70 | 82 | 90 |
| 10 | 60 | 11 | 19 | 31 | 39 | 51 | 59 | 71 | 79 | 91 | 95 | 99 | 11 | 19 | 31 | 39 | 51 | 59 | 71 | 79 | 91 | 95 | 99 |
| 11 | 61 | 00 | 08 | 20 | 28 | 40 | 44 | 48 | 60 | 68 | 80 | 88 | 10 | 18 | 30 | 38 | 50 | 58 | 70 | 78 | 90 | 94 | 98 |
| 12 | 62 | 07 | 19 | 27 | 39 | 43 | 47 | 59 | 67 | 79 | 87 | 99 | 07 | 19 | 27 | 39 | 43 | 47 | 59 | 67 | 79 | 87 | 99 |
| 13 | 63 | 08 | 16 | 28 | 36 | 48 | 56 | 68 | 76 | 88 | 92 | 96 | 06 | 18 | 26 | 38 | 42 | 46 | 58 | 66 | 78 | 86 | 98 |
| 14 | 64 | 07 | 15 | 27 | 35 | 47 | 55 | 67 | 75 | 87 | 91 | 95 | 07 | 15 | 27 | 35 | 47 | 55 | 67 | 75 | 78 | 91 | 95 |
| 15 | 65 | 04 | 16 | 24 | 36 | 40 | 44 | 56 | 64 | 76 | 84 | 96 | 06 | 14 | 26 | 34 | 46 | 54 | 66 | 74 | 77 | 90 | 94 |
| 16 | 66 | 03 | 15 | 23 | 35 | 39 | 43 | 55 | 63 | 75 | 83 | 95 | 03 | 15 | 23 | 35 | 39 | 43 | 55 | 63 | 75 | 83 | 95 |
| 17 | 67 | 04 | 12 | 24 | 32 | 44 | 52 | 64 | 72 | 84 | 88 | 92 | 02 | 14 | 22 | 34 | 38 | 42 | 54 | 62 | 74 | 82 | 94 |
| 18 | 68 | 03 | 11 | 23 | 31 | 43 | 51 | 63 | 71 | 83 | 87 | 91 | 03 | 11 | 23 | 31 | 43 | 51 | 63 | 71 | 83 | 87 | 91 |
| 19 | 69 | 00 | 12 | 20 | 32 | 36 | 40 | 52 | 60 | 72 | 80 | 92 | 02 | 10 | 22 | 30 | 42 | 50 | 62 | 70 | 82 | 86 | 90 |
| 20 | 70 | 11 | 19 | 31 | 35 | 39 | 51 | 59 | 71 | 79 | 91 | 99 | 11 | 19 | 31 | 35 | 39 | 51 | 59 | 71 | 79 | 91 | 99 |
| 21 | 71 | 00 | 08 | 20 | 28 | 40 | 48 | 60 | 68 | 80 | 84 | 88 | 10 | 18 | 30 | 34 | 38 | 50 | 58 | 70 | 78 | 90 | 98 |
| 22 | 72 | 07 | 19 | 27 | 39 | 47 | 59 | 67 | 79 | 83 | 87 | 99 | 07 | 19 | 27 | 33 | 39 | 47 | 59 | 67 | 79 | 87 | 99 |
| 23 | 73 | 08 | 16 | 28 | 32 | 36 | 48 | 56 | 68 | 76 | 88 | 96 | 06 | 18 | 26 | 32 | 38 | 46 | 58 | 66 | 78 | 86 | 98 |
| 24 | 74 | 07 | 15 | 27 | 31 | 35 | 47 | 55 | 67 | 75 | 87 | 95 | 07 | 15 | 27 | 35 | 47 | 55 | 67 | 75 | 81 | 87 | 95 |
| 25 | 75 | 04 | 16 | 24 | 36 | 44 | 56 | 64 | 76 | 80 | 84 | 96 | 06 | 14 | 26 | 34 | 46 | 54 | 66 | 74 | 80 | 86 | 94 |
| 26 | 76 | 03 | 15 | 23 | 35 | 43 | 55 | 63 | 75 | 79 | 83 | 95 | 03 | 15 | 23 | 35 | 43 | 55 | 63 | 75 | 79 | 83 | 95 |
| 27 | 77 | 04 | 12 | 24 | 28 | 32 | 44 | 52 | 64 | 72 | 84 | 92 | 02 | 14 | 22 | 34 | 42 | 54 | 62 | 74 | 78 | 82 | 94 |
| 28 | 78 | 03 | 11 | 23 | 27 | 31 | 43 | 51 | 63 | 71 | 83 | 91 | 03 | 11 | 23 | 27 | 31 | 43 | 51 | 63 | 71 | 83 | 91 |
| 29 | 79 | 00 | 12 | 20 | 32 | 40 | 52 | 60 | 72 | 76 | 80 | 92 | 02 | 10 | 22 | 26 | 30 | 42 | 50 | 62 | 70 | 82 | 90 |
| 30 | 80 | 11 | 19 | 31 | 39 | 51 | 59 | 71 | 75 | 79 | 91 | 99 | 11 | 19 | 31 | 39 | 51 | 59 | 71 | 75 | 79 | 91 | 99 |
| 31 | 81 | 00 | 08 | 20 | 24 | 28 | 40 | 48 | 60 | 68 | 80 | 88 | 10 | 18 | 30 | 38 | 50 | 58 | 70 | 74 | 78 | 90 | 98 |
| 32 | 82 | 07 | 19 | 23 | 27 | 39 | 47 | 59 | 67 | 79 | 87 | 99 | 07 | 19 | 23 | 27 | 39 | 47 | 59 | 67 | 79 | 87 | 99 |
| 33 | 83 | 08 | 16 | 28 | 36 | 48 | 56 | 68 | 72 | 76 | 88 | 96 | 06 | 18 | 22 | 26 | 38 | 46 | 58 | 66 | 78 | 86 | 98 |
| 34 | 84 | 07 | 15 | 27 | 35 | 47 | 55 | 67 | 71 | 75 | 87 | 95 | 07 | 15 | 27 | 35 | 47 | 55 | 67 | 71 | 75 | 87 | 95 |
| 35 | 85 | 04 | 16 | 20 | 24 | 36 | 44 | 56 | 64 | 76 | 84 | 96 | 06 | 14 | 26 | 34 | 46 | 54 | 66 | 70 | 74 | 86 | 94 |
| 36 | 86 | 03 | 15 | 19 | 23 | 35 | 43 | 55 | 63 | 75 | 83 | 95 | 03 | 15 | 19 | 23 | 35 | 43 | 55 | 63 | 75 | 83 | 95 |
| 37 | 87 | 04 | 12 | 24 | 32 | 44 | 52 | 64 | 68 | 72 | 84 | 92 | 02 | 14 | 18 | 22 | 34 | 42 | 54 | 62 | 74 | 82 | 94 |
| 38 | 88 | 03 | 11 | 23 | 31 | 43 | 51 | 63 | 67 | 71 | 83 | 91 | 03 | 11 | 23 | 31 | 43 | 51 | 63 | 67 | 71 | 83 | 91 |
| 39 | 89 | 00 | 12 | 16 | 20 | 32 | 40 | 52 | 60 | 72 | 80 | 92 | 02 | 10 | 22 | 30 | 42 | 50 | 62 | 66 | 70 | 82 | 90 |
| 40 | 90 | 11 | 15 | 19 | 31 | 39 | 51 | 59 | 71 | 79 | 91 | 99 | 11 | 15 | 19 | 31 | 39 | 51 | 59 | 71 | 79 | 91 | 99 |
| 41 | 91 | 00 | 08 | 20 | 28 | 40 | 48 | 60 | 64 | 68 | 80 | 88 | 10 | 14 | 18 | 30 | 38 | 50 | 58 | 70 | 78 | 90 | 98 |
| 42 | 92 | 07 | 19 | 27 | 39 | 47 | 59 | 63 | 67 | 79 | 87 | 99 | 07 | 19 | 27 | 39 | 47 | 59 | 63 | 67 | 79 | 87 | 99 |
| 43 | 93 | 08 | 12 | 16 | 28 | 36 | 48 | 56 | 68 | 76 | 88 | 96 | 06 | 18 | 26 | 38 | 46 | 58 | 62 | 66 | 78 | 86 | 98 |
| 44 | 94 | 07 | 11 | 15 | 27 | 35 | 47 | 55 | 67 | 75 | 87 | 95 | 07 | 11 | 15 | 27 | 35 | 47 | 55 | 67 | 75 | 87 | 95 |
| 45 | 95 | 04 | 16 | 24 | 36 | 44 | 56 | 60 | 64 | 76 | 84 | 96 | 06 | 10 | 14 | 26 | 34 | 46 | 54 | 66 | 74 | 86 | 94 |
| 46 | 96 | 03 | 15 | 23 | 35 | 43 | 55 | 59 | 63 | 75 | 83 | 95 | 03 | 15 | 23 | 35 | 43 | 55 | 59 | 63 | 75 | 83 | 95 |
| 47 | 97 | 04 | 08 | 12 | 24 | 32 | 44 | 52 | 64 | 72 | 84 | 92 | 02 | 14 | 22 | 34 | 42 | 54 | 58 | 62 | 74 | 82 | 94 |
| 48 | 98 | 03 | 07 | 11 | 23 | 31 | 43 | 51 | 63 | 71 | 83 | 91 | 03 | 07 | 11 | 23 | 31 | 43 | 51 | 63 | 71 | 83 | 91 |
| 49 | 99 | 00 | 12 | 20 | 32 | 40 | 52 | 56 | 60 | 72 | 80 | 92 | 02 | 06 | 10 | 22 | 30 | 42 | 50 | 62 | 70 | 82 | 90 |

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**8.** Subtraktiv kongruente Endungen für auf 3 oder 7 endigende Zahlen.

| a | Form von b | | | |
|---|---|---|---|---|
| | 4n | 4n+1 | 4n+2 | 4n+3 |
| | Kongruente Endungen | | | |
| 13 | 0004 | 0049 | 0004 | 0009 |
| | 0009 | 0064 | 0049 | 0064 |
| 17 | 0001 | 0001 | 0041 | 0041 |
| | 0016 | 0036 | 0016 | 0116 |
| 33 | 0049 | 0004 | 0009 | 0004 |
| | 0064 | 0049 | 0064 | 0009 |
| 37 | 0001 | 0016 | 0041 | 0001 |
| | 0036 | 0041 | 0036 | 0016 |
| 53 | 0004 | 0009 | 0004 | 0049 |
| | 0049 | 0064 | 0009 | 0064 |
| 57 | 0016 | 0041 | 0001 | 0001 |
| | 0041 | 0036 | 0016 | 0036 |
| 73 | 0009 | 0004 | 0049 | 0004 |
| | 0064 | 0009 | 0064 | 0049 |
| 77 | 0036 | 0001 | 0001 | 0016 |
| | 0041 | 0016 | 0036 | 0041 |
| 93 | 0004 | 0049 | 0004 | 0009 |
| | 0009 | 0064 | 0049 | 0064 |
| 97 | 0001 | 0001 | 0016 | 0036 |
| | 0016 | 0036 | 0041 | 0041 |

**9.** Subtraktiv kongruente Endungen für auf 1 oder 9 endigende Zahlen.

| a | Form von b | Kongruente Endungen |
|---|---|---|
| 01 09 41 49 81 89 | 2n | 0000 0400 1600 |
| 21 29 61 69 | | 2400 3600 4400 |
| | 2n+1 | 5600 6400 7600 |
| | | 8400 9600 |
| 01 09 41 49 81 89 | 2n+1 | 0100 0900 2100 |
| 21 29 61 69 | | 2500 2900 4100 |
| | 2n | 4900 6100 6900 |
| | | 8100 8900 |
| 09 21 41 89 | 4n, 4n+1 | 0025 1225 2025 |
| 29 61 | 4n, 4n+3 | 3225 4025 5225 |
| 69 | 4n+1,4n+2 | 5625 6025 7225 |
| 01 49 81 | 4n+2,4n+3 | 8025 9225 |
| 01 49 81 | 4n, 4n+1 | 0225 0625 1025 |
| 69 | 4n, 4n+3 | 2225 3025 4225 |
| 29 61 | 4n+1,4n+2 | 5025 6225 7025 |
| 09 21 41 89 | 4n+2,4n+3 | 8225 9025 |

**10.** Vierziffrige quadratische Endungen und die ihnen zugehörenden Zahlen.

| Endz. | Zahl | Endz. | Zahl | Endz. | Zahl | Endz. | Zahl |
|---|---|---|---|---|---|---|---|
| 0000 | 0 (1) | 0164 | 142 2358 | 0356 | 566 1934 | 0544 | 388 2112 |
| 0001 | 1 1249 | 0169 | 13 1237 | 0361 | 19 1269 | 0561 | 831 2081 |
| 0004 | 2 2498 | 0176 | 224 2276 | 0369 | 1463 2287 | 0564 | 742 1758 |
| 0009 | 3 1253 | 0196 | 14 2436 | 0384 | 872 1628 | 0569 | 413 837 |
| 0016 | 4 2496 | 0201 | 101 1149 | 0400 | 20 480 (5) | 0576 | 24 2476 |
| 0025 | 5 245 (10) | 0209 | 1703 2047 | 0401 | 201 1049 | 0596 | 686 1814 |
| 0036 | 6 2494 | 0224 | 332 2168 | 0404 | 102 2398 | 0601 | 301 949 |
| 0041 | 1179 2429 | 0225 | 15 265 (10) | 0409 | 347 1597 | 0609 | 103 1353 |
| 0949 | 7 1257 | 0241 | 671 1921 | 0416 | 1196 1304 | 0624 | 1068 1432 |
| 0064 | 8 2492 | 0244 | 1162 1338 | 0436 | 794 1706 | 0625 | 25 175 (2) |
| 0081 | 9 1241 | 0249 | 557 693 | 0441 | 21 1229 | 0641 | 1871 1879 |
| 0084 | 922 1578 | 0256 | 16 2484 | 0449 | 143 1393 | 0644 | 762 1738 |
| 0089 | 283 1533 | 0276 | 174 2326 | 0464 | 592 1908 | 0649 | 843 2093 |
| 0096 | 436 2064 | 0281 | 1091 2341 | 0481 | 1559 2191 | 0656 | 284 2216 |
| 0100 | 10 490 (5) | 0289 | 17 1233 | 0484 | 22 2478 | 0676 | 26 4474 |
| 0116 | 954 1546 | 0304 | 548 1952 | 0489 | 317 933 | 0681 | 459 1709 |
| 0121 | 11 1261 | 0321 | 361 889 | 0496 | 1136 1364 | 0689 | 617 633 |
| 0129 | 1127 2377 | 0324 | 18 2442 | 0516 | 246 2254 | 0704 | 448 2052 |
| 0144 | 12 2488 | 0329 | 1323 2427 | 0521 | 539 1789 | 0721 | 1439 2311 |
| 0161 | 1631 2119 | 0336 | 656 1844 | 0529 | 23 1273 | 0724 | 1082 1418 |

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| Endz. | Zahl | Endz. | Zahl | Endz. | Zahl | Endz. | Zahl |
|---|---|---|---|---|---|---|---|
| 0729 | 27 1277 | 1209 | 203 1453 | 1689 | 867 2117 | 2169 | 763 2013 |
| 0736 | 144 2356 | 1216 | 1096 1404 | 1696 | 736 1764 | 2176 | 776 1724 |
| 0756 | 266 2234 | 1225 | 35 285(10) | 1716 | 1154 1346 | 2196 | 986 1514 |
| 0761 | 819 2069 | 1236 | 106 2394 | 1721 | 939 2189 | 2201 | 149 1101 |
| 0769 | 1863 1887 | 1241 | 1171 2121 | 1729 | 1527 2223 | 2209 | 47 1297 |
| 0784 | 28 2472 | 1249 | 807 2057 | 1744 | 912 1588 | 2224 | 832 1668 |
| 0801 | 401 849 | 1264 | 708 1792 | 1761 | 319 1569 | 2225 | 335 415(10) |
| 0804 | 202 2298 | 1281 | 1591 2159 | 1764 | 42 2458 | 2241 | 1671 2079 |
| 0809 | 1803 1947 | 1284 | 722 1778 | 1769 | 363 1613 | 2244 | 838 1662 |
| 0816 | 104 2396 | 1289 | 267 1517 | 1776 | 576 1924 | 2249 | 1443 2307 |
| 0836 | 906 1594 | 1296 | 36 2464 | 1796 | 286 2214 | 2256 | 1016 1484 |
| 0841 | 29 1221 | 1316 | 146 2354 | 1801 | 349 901 | 2276 | 826 1674 |
| 0849 | 1543 2207 | 1321 | 389 861 | 1809 | 303 1553 | 2281 | 1659 2091 |
| 0864 | 1192 1308 | 1329 | 177 1073 | 1824 | 268 2232 | 2289 | 1767 1983 |
| 0881 | 609 641 | 1344 | 1188 1312 | 1841 | 471 1721 | 2304 | 48 2452 |
| 0884 | 878 1622 | 1361 | 481 769 | 1844 | 438 2062 | 2321 | 111 1361 |
| 0889 | 333 917 | 1364 | 558 1942 | 1849 | 43 1293 | 2324 | 482 2018 |
| 0896 | 664 1836 | 1369 | 37 1213 | 1856 | 1184 1316 | 2329 | 427 1677 |
| 0900 | 30 470 (5) | 1376 | 376 2124 | 1876 | 626 1874 | 2336 | 844 1656 |
| 0916 | 1054 1446 | 1396 | 414 2086 | 1881 | 109 1141 | 2356 | 934 1566 |
| 0921 | 1411 2339 | 1401 | 549 701 | 1889 | 1167 2417 | 2361 | 269 981 |
| 0929 | 1327 2423 | 1409 | 1847 1903 | 1904 | 118 2352 | 2369 | 287 1537 |
| 0944 | 788 1712 | 1424 | 1132 1368 | 1921 | 1839 1911 | 2384 | 1128 1372 |
| 0961 | 31 1281 | 1441 | 521 729 | 1924 | 618 1882 | 2400 | 180 320 (5) |
| 0964 | 1158 1342 | 1444 | 38 2462 | 1929 | 923 2173 | 2401 | 49 1201 |
| 0969 | 437 813 | 1449 | 107 1357 | 1936 | 44 2456 | 2404 | 602 1898 |
| 0976 | 176 2324 | 1456 | 884 1616 | 1956 | 634 1866 | 2409 | 403 1653 |
| 0996 | 1114 1386 | 1476 | 426 2074 | 1961 | 531 1781 | 2416 | 304 2196 |
| 1001 | 501 749 | 1481 | 1059 2309 | 1969 | 687 1937 | 2436 | 206 2294 |
| 1009 | 247 1497 | 1489 | 567 1817 | 1984 | 228 2272 | 2441 | 229 1021 |
| 1024 | 32 2468 | 1504 | 248 2252 | 2001 | 249 1001 | 2449 | 1607 2143 |
| 1025 | 105 145(10) | 1521 | 39 1289 | 2004 | 502 1998 | 2464 | 1092 1408 |
| 1041 | 679 1929 | 1524 | 782 1718 | 2009 | 1747 2003 | 2481 | 559 1809 |
| 1044 | 362 2138 | 1529 | 227 1477 | 2016 | 996 1504 | 2484 | 522 1978 |
| 1049 | 1507 2243 | 1536 | 756 1744 | 2025 | 45 205(10) | 2489 | 1683 2067 |
| 1056 | 584 1916 | 1556 | 334 2166 | 2036 | 1006 1494 | 2496 | 364 2136 |
| 1076 | 226 2274 | 1561 | 1331 2419 | 2041 | 179 1429 | 2500 | 50 (1) |
| 1081 | 491 1741 | 1569 | 1087 2337 | 2049 | 743 1993 | 2516 | 1246 1254 |
| 1089 | 33 1217 | 1584 | 672 1828 | 2064 | 492 2008 | 2521 | 461 789 |
| 1104 | 318 2152 | 1600 | 40 460 (5) | 2081 | 991 2241 | 2529 | 1727 2023 |
| 1121 | 511 1761 | 1601 | 449 801 | 2084 | 1078 1422 | 2544 | 112 2388 |
| 1124 | 318 2182 | 1604 | 402 2098 | 2089 | 1467 2283 | 2561 | 1831 1919 |
| 1129 | 1123 2373 | 1609 | 147 1397 | 2096 | 1064 1436 | 2564 | 1242 1258 |
| 1136 | 944 1556 | 1616 | 204 2296 | 2100 | 110 390 (5) | 2569 | 1163 2413 |
| 1156 | 34 2466 | 1636 | 694 1806 | 2116 | 46 2454 | 2576 | 976 1524 |
| 1161 | 1619 2131 | 1641 | 1379 2371 | 2121 | 1011 2261 | 2596 | 814 1686 |
| 1169 | 1487 2263 | 1649 | 593 657 | 2129 | 377 873 | 2601 | 51 1301 |
| 1184 | 928 1572 | 1664 | 108 2392 | 2144 | 512 1988 | 2609 | 1647 2103 |
| 1201 | 601 649 | 1681 | 41 1209 | 2161 | 1119 2369 | 2624 | 568 1932 |
| 1204 | 302 2198 | 1684 | 178 2322 | 2164 | 642 1858 | 2641 | 879 2129 |

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| Endz. | Zahl | Endz. | Zahl | Endz. | Zahl | Endz. | Zahl |
|---|---|---|---|---|---|---|---|
| 2644 | 1238 1262 | 3124 | 182 2318 | 3604 | 902 1598 | 4089 | 533 717 |
| 2649 | 907 2157 | 3129 | 627 1877 | 3609 | 603 1853 | 4096 | 64 2426 |
| 2656 | 716 1784 | 3136 | 56 2444 | 3616 | 796 1704 | 4100 | 210 290 (5) |
| 2676 | 1026 1474 | 3156 | 966 1534 | 3636 | 306 2194 | 4116 | 1046 1454 |
| 2681 | 541 709 | 3161 | 619 1869 | 3641 | 379 1629 | 4121 | 1739 2011 |
| 2689 | 1383 2367 | 3169 | 513 737 | 3649 | 1343 2407 | 4129 | 1623 2127 |
| 2704 | 52 2148 | 3184 | 428 2072 | 3664 | 392 2108 | 4144 | 1012 1488 |
| 2721 | 439 1689 | 3201 | 351 1601 | 3681 | 209 1041 | 4161 | 119 1369 |
| 2724 | 918 1582 | 3204 | 802 1698 | 3684 | 322 2178 | 4164 | 1142 1358 |
| 2729 | 723 1973 | 3209 | 1547 2203 | 3689 | 117 1133 | 4169 | 987 2237 |
| 2736 | 856 1644 | 3216 | 404 2096 | 3696 | 764 1736 | 4176 | 724 1776 |
| 2756 | 1234 1266 | 3225 | 115 365(10) | 3716 | 134 2346 | 4196 | 514 1986 |
| 2761 | 181 1069 | 3236 | 1106 1394 | 3721 | 61 1189 | 4201 | 851 2101 |
| 2769 | 113 1137 | 3241 | 1579 2171 | 3729 | 473 777 | 4209 | 703 1953 |
| 2784 | 472 2028 | 3249 | 57 1193 | 3744 | 1088 1412 | 4224 | 1168 1332 |
| 2801 | 151 1401 | 3264 | 208 2292 | 3761 | 569 681 | 4225 | 65 185(10) |
| 2804 | 702 1798 | 3281 | 1159 2409 | 3764 | 512 1958 | 4241 | 1079 2329 |
| 2809 | 53 1197 | 3284 | 1222 1278 | 3769 | 1387 2363 | 4244 | 338 2162 |
| 2816 | 896 1604 | 3289 | 483 1733 | 3776 | 924 1576 | 4249 | 307 1557 |
| 2836 | 594 1906 | 3296 | 1036 1464 | 3796 | 1214 1286 | 4256 | 484 2016 |
| 2841 | 971 2221 | 3316 | 1146 1354 | 3801 | 651 1901 | 4276 | 674 1826 |
| 2849 | 207 1457 | 3321 | 611 1861 | 3809 | 1447 2303 | 4281 | 659 1909 |
| 2864 | 808 1692 | 3329 | 1823 1927 | 3824 | 232 2268 | 4289 | 233 1017 |
| 2881 | 391 1641 | 3344 | 688 1812 | 3841 | 1471 2279 | 4304 | 452 2048 |
| 2884 | 378 2122 | 3361 | 231 1481 | 3844 | 62 2138 | 4321 | 1111 2361 |
| 2889 | 1083 2333 | 3364 | 58 2442 | 3849 | 1707 2043 | 4324 | 982 1518 |
| 2896 | 336 2164 | 3369 | 1787 1963 | 3856 | 184 2316 | 4329 | 323 1573 |
| 2900 | 230 270 (5) | 3376 | 1124 1376 | 3876 | 874 1626 | 4336 | 156 2344 |
| 2916 | 54 2446 | 3396 | 586 1914 | 3881 | 891 2141 | 4356 | 66 2434 |
| 2921 | 1339 2411 | 3401 | 451 1701 | 3889 | 417 833 | 4361 | 731 1981 |
| 2929 | 577 673 | 3409 | 153 1097 | 3904 | 352 2148 | 4369 | 463 1713 |
| 2944 | 288 2212 | 3424 | 868 1632 | 3921 | 839 2089 | 4384 | 628 1872 |
| 2961 | 1031 2281 | 3441 | 271 1521 | 3924 | 118 1382 | 4400 | 120 380 (5) |
| 2964 | 658 1842 | 3444 | 462 2038 | 3929 | 827 2077 | 4401 | 951 2201 |
| 2969 | 1563 2187 | 3449 | 643 1893 | 3936 | 956 1544 | 4404 | 1102 1398 |
| 2976 | 1176 1324 | 3456 | 116 2384 | 3956 | 366 2134 | 4409 | 1347 2403 |
| 2996 | 114 2386 | 3476 | 1074 1426 | 3961 | 1531 2219 | 4416 | 696 1804 |
| 3001 | 251 1501 | 3481 | 59 1309 | 3969 | 63 1313 | 4436 | 1206 1294 |
| 3009 | 503 1753 | 3489 | 183 1433 | 3984 | 272 2228 | 4441 | 771 2021 |
| 3024 | 532 1968 | 3504 | 252 2248 | 4001 | 751 2001 | 4449 | 393 857 |
| 3025 | 55 305(10) | 3521 | 289 961 | 4004 | 1002 1498 | 4464 | 908 1592 |
| 3041 | 321 929 | 3524 | 1218 1282 | 4009 | 253 997 | 4481 | 441 809 |
| 3044 | 862 1638 | 3529 | 523 1773 | 4016 | 504 1996 | 4484 | 1022 1478 |
| 3049 | 493 757 | 3536 | 744 1756 | 4025 | 155 405(10) | 4489 | 67 1317 |
| 3056 | 416 2084 | 3556 | 666 1834 | 4036 | 494 2006 | 4496 | 636 1864 |
| 3076 | 1226 1274 | 3561 | 1419 2331 | 4041 | 429 821 | 4516 | 254 2216 |
| 3081 | 1491 2259 | 3569 | 337 913 | 4049 | 1007 2257 | 4521 | 211 1461 |
| 3089 | 783 2033 | 3584 | 1172 1328 | 4064 | 992 1508 | 4529 | 273 977 |
| 3104 | 152 2348 | 3600 | 60 440 (5) | 4081 | 1759 1991 | 4544 | 612 1088 |
| 3121 | 1511 2239 | 3601 | 551 1801 | 4084 | 578 1922 | 4561 | 919 2169 |

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| Endz. | Zahl | Endz. | Zahl | Endz. | Zahl | Endz. | Zahl |
|---|---|---|---|---|---|---|---|
| 4564 | 758 1742 | 5044 | 1138 1362 | 5529 | 1227 2477 | 6009 | 1003 2253 |
| 4569 | 587 1837 | 5049 | 1243 2493 | 5536 | 256 2244 | 6016 | 496 2004 |
| 4576 | 524 1976 | 5056 | 1084 1416 | 5556 | 834 1766 | 6025 | 355 395(10) |
| 4596 | 186 2314 | 5076 | 274 2226 | 5561 | 419 1669 | 6036 | 506 1994 |
| 4601 | 1051 2301 | 5081 | 1259 2491 | 5569 | 1663 2087 | 6041 | 571 1821 |
| 4609 | 353 897 | 5089 | 967 2217 | 5584 | 828 1672 | 6049 | 257 993 |
| 4624 | 68 2432 | 5104 | 652 1848 | 5600 | 160 340 (5) | 6064 | 1008 1492 |
| 4641 | 121 1129 | 5121 | 1239 2489 | 5601 | 1551 2199 | 6081 | 759 2009 |
| 4644 | 738 1762 | 5124 | 682 1818 | 5604 | 1098 1402 | 6084 | 78 2422 |
| 4649 | 157 1093 | 5129 | 123 1373 | 5609 | 1147 2397 | 6089 | 1283 2467 |
| 4656 | 784 1716 | 5136 | 1056 1444 | 5616 | 704 1796 | 6096 | 936 1564 |
| 4676 | 474 2026 | 5156 | 534 1966 | 5625 | 75 125 (2) | 6100 | 190 310 (5) |
| 4681 | 291 1541 | 5161 | 381 869 | 5636 | 1194 1306 | 6116 | 454 2046 |
| 4689 | 367 1617 | 5169 | 1263 2487 | 5641 | 621 629 | 6121 | 739 1989 |
| 4704 | 552 1948 | 5184 | 72 2428 | 5649 | 407 1657 | 6129 | 127 1377 |
| 4721 | 561 689 | 5201 | 1351 2399 | 5664 | 892 1608 | 6144 | 988 1512 |
| 4724 | 418 2082 | 5204 | 1198 1302 | 5681 | 791 2041 | 6161 | 369 881 |
| 4729 | 1027 2277 | 5209 | 453 797 | 5684 | 822 1678 | 6164 | 858 1642 |
| 4736 | 644 1856 | 5216 | 596 1904 | 5689 | 1867 1883 | 6169 | 237 1013 |
| 4756 | 234 2266 | 5225 | 235 485(10) | 5696 | 236 2264 | 6176 | 276 2224 |
| 4761 | 69 1181 | 5236 | 394 2106 | 5716 | 846 1654 | 6196 | 486 2014 |
| 4769 | 863 2113 | 5241 | 579 1829 | 5721 | 189 1061 | 6201 | 1851 1899 |
| 4784 | 972 1528 | 5249 | 1807 1943 | 5729 | 1223 2473 | 6209 | 1047 2297 |
| 4801 | 1151 2401 | 5264 | 292 2208 | 5744 | 588 1912 | 6224 | 668 1832 |
| 4804 | 1202 1298 | 5281 | 159 1409 | 5761 | 431 1681 | 6225 | 215 465(10) |
| 4809 | 803 2053 | 5284 | 778 1722 | 5764 | 1042 1458 | 6241 | 79 1329 |
| 4816 | 604 1896 | 5289 | 1267 2483 | 5769 | 613 637 | 6244 | 162 2338 |
| 4836 | 406 2094 | 5296 | 464 2036 | 5776 | 76 2424 | 6249 | 443 1693 |
| 4841 | 1779 1971 | 5316 | 354 2146 | 5796 | 214 2286 | 6256 | 516 1984 |
| 4849 | 543 1793 | 5321 | 1611 2139 | 5801 | 1651 2099 | 6276 | 326 2174 |
| 4864 | 308 2192 | 5329 | 73 1177 | 5809 | 553 697 | 6281 | 341 909 |
| 4881 | 1391 2359 | 5344 | 188 2312 | 5824 | 732 1768 | 6289 | 983 2233 |
| 4884 | 122 2378 | 5361 | 1231 2481 | 5841 | 1279 2471 | 6304 | 652 1548 |
| 4889 | 667 1917 | 5364 | 442 2058 | 5844 | 562 1938 | 6321 | 1639 2111 |
| 4896 | 1164 1336 | 5369 | 213 1037 | 5849 | 293 957 | 6324 | 1018 1482 |
| 4900 | 70 430 (5) | 5376 | 124 2376 | 5856 | 816 1684 | 6329 | 1427 2323 |
| 4916 | 946 1554 | 5396 | 914 1586 | 5876 | 126 2374 | 6336 | 1156 1344 |
| 4921 | 339 1589 | 5401 | 1451 2299 | 5881 | 1859 1891 | 6356 | 1066 1434 |
| 4929 | 1423 2327 | 5409 | 903 2153 | 5889 | 1583 2167 | 6361 | 1731 2019 |
| 4944 | 212 2288 | 5424 | 368 2132 | 5904 | 852 1648 | 6369 | 1287 2463 |
| 4961 | 1719 2081 | 5441 | 1271 2479 | 5921 | 161 1089 | 6384 | 128 2372 |
| 4964 | 158 2342 | 5444 | 962 1538 | 5924 | 382 2118 | 6400 | 80 420 (5) |
| 4969 | 187 1437 | 5449 | 1107 2357 | 5929 | 77 1173 | 6401 | 1799 1951 |
| 4976 | 324 2176 | 5456 | 1116 1384 | 5936 | 544 1956 | 6404 | 898 1602 |
| 4996 | 886 1614 | 5476 | 74 2426 | 5956 | 1134 1366 | 6409 | 597 653 |
| 5001 | 1251 2499 | 5481 | 309 941 | 5961 | 1219 2469 | 6416 | 804 1696 |
| 5009 | 1247 2497 | 5489 | 1567 2183 | 5969 | 1687 2063 | 6436 | 294 2206 |
| 5024 | 1032 1468 | 5504 | 752 1748 | 5984 | 772 1728 | 6441 | 1771 1979 |
| 5025 | 255 495(10) | 5521 | 711 1961 | 6001 | 1751 1999 | 6449 | 1143 2393 |
| 5041 | 71 1321 | 5524 | 718 1782 | 6004 | 998 1502 | 6464 | 408 2092 |

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|---|---|---|---|---|---|---|---|
| 6481 | 191 1441 | 6964 | 342 2158 | 7444 | 1038 1462 | 7929 | 1827 1923 |
| 6484 | 978 1522 | 6969 | 563 1813 | 7449 | 357 893 | 7936 | 456 2044 |
| 6489 | 683 1933 | 6976 | 676 1824 | 7456 | 384 2116 | 7956 | 134 2366 |
| 6496 | 864 1636 | 6996 | 614 1886 | 7476 | 926 1574 | 7961 | 219 1469 |
| 6516 | 746 1754 | 7001 | 1499 2251 | 7481 | 691 1941 | 7969 | 313 937 |
| 6521 | 1211 2461 | 7009 | 497 753 | 7489 | 433 817 | 7984 | 1228 1272 |
| 6529 | 1023 2273 | 7024 | 968 1532 | 7504 | 1248 1252 | 8001 | 999 2249 |
| 6544 | 1112 1388 | 7025 | 295 455(10) | 7521 | 1711 2039 | 8004 | 498 2002 |
| 6561 | 81 1169 | 7041 | 1071 2321 | 7524 | 218 2282 | 8009 | 747 1997 |
| 6564 | 258 2242 | 7044 | 638 1862 | 7529 | 477 773 | 8016 | 1004 1496 |
| 6569 | 163 1413 | 7049 | 507 1757 | 7536 | 1244 1256 | 8025 | 195 445(10) |
| 6576 | 476 2024 | 7056 | 84 2416 | 7556 | 166 2334 | 8036 | 994 1506 |
| 6596 | 1186 1314 | 7076 | 726 1774 | 7561 | 581 669 | 8041 | 1571 2179 |
| 6601 | 1699 2051 | 7081 | 259 1509 | 7569 | 87 1337 | 8049 | 1743 2007 |
| 6609 | 1103 2353 | 7089 | 217 1033 | 7584 | 328 2172 | 8064 | 508 1992 |
| 6624 | 432 2068 | 7104 | 1152 1348 | 7600 | 240 260 (5) | 8081 | 241 1009 |
| 6641 | 129 1121 | 7121 | 239 1489 | 7601 | 1199 2449 | 8084 | 422 2078 |
| 6644 | 238 2262 | 7124 | 1182 1318 | 7604 | 598 1902 | 8089 | 467 1717 |
| 6649 | 1843 1907 | 7129 | 1627 2123 | 7609 | 397 853 | 8096 | 564 1936 |
| 6656 | 216 2284 | 7136 | 444 2056 | 7616 | 296 2204 | 8100 | 90 410 (5) |
| 6676 | 526 1974 | 7156 | 466 2034 | 7636 | 194 2306 | 8116 | 546 1954 |
| 6681 | 1291 2459 | 7161 | 131 1381 | 7641 | 371 1621 | 8121 | 261 989 |
| 6689 | 383 1633 | 7169 | 487 1737 | 7649 | 343 1593 | 8129 | 623 1873 |
| 6704 | 1052 1448 | 7184 | 572 1928 | 7664 | 1108 1392 | 8144 | 488 2012 |
| 6721 | 311 1561 | 7201 | 1399 2351 | 7681 | 1791 1959 | 8161 | 631 1881 |
| 6724 | 82 2418 | 7204 | 698 1802 | 7684 | 1178 1322 | 8164 | 358 2142 |
| 6729 | 277 973 | 7209 | 1203 2453 | 7689 | 133 1117 | 8169 | 1763 1987 |
| 6736 | 356 2144 | 7216 | 904 1596 | 7696 | 1236 1264 | 8176 | 1224 1276 |
| 6756 | 766 1734 | 7225 | 85 165(10) | 7716 | 654 1846 | 8196 | 1014 1486 |
| 6761 | 931 2181 | 7236 | 606 1894 | 7721 | 811 2061 | 8201 | 899 2149 |
| 6769 | 887 2137 | 7241 | 421 829 | 7729 | 527 1777 | 8209 | 297 953 |
| 6784 | 1028 1472 | 7249 | 193 1057 | 7744 | 88 2412 | 8224 | 168 2332 |
| 6801 | 1599 2151 | 7264 | 792 1708 | 7761 | 1431 2319 | 8225 | 135 385(10) |
| 6804 | 798 1702 | 7281 | 409 841 | 7764 | 958 1542 | 8241 | 329 921 |
| 6809 | 947 2197 | 7284 | 278 2222 | 7769 | 1363 2387 | 8244 | 662 1838 |
| 6816 | 396 2104 | 7289 | 517 733 | 7776 | 1076 1424 | 8249 | 1307 2443 |
| 6836 | 1094 1406 | 7296 | 536 1964 | 7796 | 786 1714 | 8256 | 984 1516 |
| 6841 | 779 2029 | 7316 | 646 1854 | 7801 | 1099 2349 | 8276 | 1174 1326 |
| 6849 | 1207 2457 | 7321 | 1139 2389 | 7809 | 1303 2447 | 8281 | 91 1341 |
| 6864 | 192 2308 | 7329 | 823 2073 | 7824 | 1232 1268 | 8289 | 767 2017 |
| 6881 | 1359 2391 | 7344 | 312 2188 | 7841 | 279 1529 | 8304 | 1048 1452 |
| 6884 | 622 1878 | 7361 | 1519 2231 | 7844 | 1062 1438 | 8321 | 639 1889 |
| 6889 | 83 1333 | 7364 | 942 1558 | 7849 | 1043 2293 | 8324 | 518 1922 |
| 6896 | 164 2336 | 7369 | 963 2213 | 7856 | 684 1816 | 8329 | 573 677 |
| 6900 | 130 370 (5) | 7376 | 876 1624 | 7876 | 1126 1374 | 8336 | 344 2156 |
| 6916 | 554 1946 | 7396 | 86 2414 | 7881 | 859 2109 | 8356 | 434 2066 |
| 6921 | 661 589 | 7401 | 1299 2451 | 7889 | 167 1417 | 8361 | 1019 2269 |
| 6929 | 327 1577 | 7409 | 847 2097 | 7904 | 1148 1352 | 8369 | 537 713 |
| 6944 | 712 1788 | 7424 | 132 2368 | 7921 | 89 1161 | 8384 | 372 2128 |
| 6961 | 719 1969 | 7441 | 1479 2271 | 7924 | 882 1618 | 8400 | 220 280 (5) |

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| Endz. | Zahl | Endz. | Zahl | Endz. | Zahl | Endz. | Zahl |
|---|---|---|---|---|---|---|---|
| 8401 | 799 2049 | 8804 | 298 2202 | 9201 | 399 1649 | 9600 | 140 360 (5) |
| 8404 | 398 2102 | 8809 | 197 1053 | 9204 | 198 2302 | 9601 | 199 1449 |
| 8409 | 1403 2347 | 8816 | 1104 1396 | 9209 | 547 1797 | 9604 | 98 2402 |
| 8416 | 196 2304 | 8836 | 94 2406 | 9216 | 96 2404 | 9609 | 1603 2147 |
| 8436 | 706 1794 | 8841 | 221 1029 | 9225 | 315 435(10) | 9616 | 1204 1296 |
| 8441 | 979 2229 | 8849 | 457 793 | 9236 | 894 1606 | 9636 | 806 1694 |
| 8449 | 607 1857 | 8864 | 692 1808 | 9241 | 171 1421 | 9641 | 1371 2379 |
| 8464 | 92 2408 | 8881 | 359 1609 | 9249 | 943 2193 | 9649 | 1407 2343 |
| 8481 | 1191 2441 | 8884 | 1122 1378 | 9264 | 1208 1292 | 9664 | 608 1892 |
| 8484 | 478 2022 | 8889 | 1667 2083 | 9281 | 591 1841 | 9681 | 959 2209 |
| 8489 | 1067 2317 | 8896 | 836 1664 | 9284 | 222 2278 | 9684 | 678 1822 |
| 8496 | 136 2364 | 8900 | 170 330 (5) | 9289 | 1483 2267 | 9689 | 883 2133 |
| 8516 | 754 1746 | 8916 | 446 2054 | 9296 | 964 1536 | 9696 | 264 2236 |
| 8521 | 1539 2211 | 8921 | 411 1661 | 9316 | 854 1646 | 9716 | 346 2154 |
| 8529 | 727 1977 | 8929 | 423 1673 | 9321 | 139 1389 | 9721 | 1811 1939 |
| 8544 | 888 1612 | 8941 | 1212 1288 | 9329 | 927 2177 | 9729 | 223 1473 |
| 8561 | 169 1081 | 8961 | 281 969 | 9344 | 812 1688 | 9744 | 412 2088 |
| 8564 | 242 2258 | 8964 | 842 1658 | 9361 | 519 1769 | 9761 | 1319 2431 |
| 8569 | 1587 2163 | 8969 | 1187 2437 | 9364 | 1058 1442 | 9764 | 458 2042 |
| 8576 | 1024 1476 | 8976 | 824 1676 | 9369 | 787 2037 | 9769 | 387 1637 |
| 8596 | 314 2186 | 8996 | 386 2114 | 9376 | 624 1876 | 9776 | 424 2076 |
| 8601 | 699 1949 | 9001 | 499 1749 | 9396 | 1086 1414 | 9796 | 714 1786 |
| 8609 | 647 1897 | 9009 | 1503 2247 | 9401 | 299 1549 | 9801 | 99 1349 |
| 8624 | 932 1568 | 9024 | 468 2032 | 9409 | 97 1153 | 9809 | 447 1697 |
| 8641 | 871 2121 | 9025 | 95 345(10) | 9424 | 632 1868 | 9824 | 768 1732 |
| 8644 | 262 2238 | 9041 | 1679 2071 | 9441 | 479 1729 | 9841 | 529 721 |
| 8649 | 93 1157 | 9044 | 138 2362 | 9444 | 538 1962 | 9844 | 938 1562 |
| 8656 | 1216 1284 | 9049 | 243 1493 | 9449 | 1643 2107 | 9849 | 707 1957 |
| 8676 | 974 1526 | 9056 | 916 1584 | 9456 | 616 1884 | 9856 | 316 2184 |
| 8681 | 1459 2291 | 9076 | 774 1726 | 9476 | 574 1926 | 9876 | 374 2126 |
| 8689 | 1367 2383 | 9081 | 509 741 | 9481 | 1691 2059 | 9881 | 141 1109 |
| 8704 | 948 1552 | 9089 | 1783 1967 | 9489 | 1183 2433 | 9889 | 583 1833 |
| 8721 | 1311 2439 | 9104 | 848 1652 | 9504 | 748 1752 | 9904 | 648 1852 |
| 8724 | 582 1918 | 9121 | 489 761 | 9521 | 1039 2289 | 9921 | 911 2161 |
| 8729 | 1723 2027 | 9124 | 818 1682 | 9524 | 282 2218 | 9924 | 1118 1382 |
| 8736 | 1144 1356 | 9129 | 373 877 | 9529 | 1523 2227 | 9929 | 173 1077 |
| 8756 | 734 1766 | 9136 | 556 1944 | 9536 | 244 2256 | 9936 | 1044 1456 |
| 8761 | 1819 1931 | 9156 | 1034 1466 | 9556 | 1166 1334 | 9956 | 866 1634 |
| 8769 | 137 1113 | 9161 | 1131 2381 | 9561 | 331 1581 | 9961 | 469 781 |
| 8784 | 528 1972 | 9169 | 263 1513 | 9569 | 663 1913 | 9969 | 1063 2313 |
| 8801 | 599 1849 | 9184 | 1072 1428 | 9584 | 172 2328 | 9984 | 728 1772 |

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## 11. Die ersten hundert Vielfachen der Zahlen $\pi$ und $\pi^{-1}$.

| N | $N\pi$ | $N\pi^{-1}$ | N | $N\pi$ | $N\pi^{-1}$ |
|---|---|---|---|---|---|
| 1 | 3.141592 653590 | 0.318309 886184 | 51 | 160.221225 333079 | 16.233804 195373 |
| 2 | 6.283185 307180 | 0.636619 772368 | 52 | 163.362817 986669 | 16.552114 081557 |
| 3 | 9.424777 960769 | 0.954929 658551 | 53 | 166.504410 640259 | 16.870423 967741 |
| 4 | 12.566370 614359 | 1.273239 544735 | 54 | 169.646003 293849 | 17.188733 853925 |
| 5 | 15.707963 267949 | 1.591549 430919 | 55 | 172.787595 947439 | 17.507043 740109 |
| 6 | 18.849555 921539 | 1.909859 317103 | 56 | 175.929188 601028 | 17.825353 626292 |
| 7 | 21.991148 575129 | 2.228169 203287 | 57 | 179.070781 254618 | 18.143663 512476 |
| 8 | 25.132741 228718 | 2.546479 089470 | 58 | 182.212373 908208 | 18.461973 398660 |
| 9 | 28.274333 882308 | 2.864788 975654 | 59 | 185.353966 561798 | 18.780283 284844 |
| 10 | 31.415926 535898 | 3.183098 861838 | 60 | 188.495559 215388 | 19.098593 171027 |
| 11 | 34.557519 189488 | 3.501408 748022 | 61 | 191.637151 868977 | 19.416903 057211 |
| 12 | 37.699111 843078 | 3.819718 634205 | 62 | 194.778744 522567 | 19.735212 943395 |
| 13 | 40.840704 496667 | 4.138028 520389 | 63 | 197.920337 176157 | 20.053522 829579 |
| 14 | 43.982297 150257 | 4.456338 406573 | 64 | 201.061929 829747 | 20.371832 715763 |
| 15 | 47.123889 803847 | 4.774648 292757 | 65 | 204.203522 483337 | 20.690142 601946 |
| 16 | 50.265482 457437 | 5.092958 178941 | 66 | 207.345115 136926 | 21.008452 488130 |
| 17 | 53.407075 111026 | 5.411268 065124 | 67 | 210.486707 790516 | 21.326762 374314 |
| 18 | 56.548667 764616 | 5.729577 951308 | 68 | 213.628300 444106 | 21.645072 260498 |
| 19 | 59.690260 418206 | 6.047887 837492 | 69 | 216.769893 097696 | 21.963382 146682 |
| 20 | 62.831853 071796 | 6.366197 723676 | 70 | 219.911485 751286 | 22.281692 032865 |
| 21 | 65.973445 725386 | 6.684507 609860 | 71 | 223.053078 404875 | 22.600001 919049 |
| 22 | 69.115038 378975 | 7.002817 496043 | 72 | 226.194671 058465 | 22.918311 805233 |
| 23 | 72.256631 032565 | 7.321127 382227 | 73 | 229.336263 712055 | 23.236621 691417 |
| 24 | 75.398223 686155 | 7.639437 268411 | 74 | 232.477856 365645 | 23.554931 577601 |
| 25 | 78.539816 339745 | 7.957747 154595 | 75 | 235.619449 019234 | 23.873241 463784 |
| 26 | 81.681408 993335 | 8.276057 040779 | 76 | 238.761041 672824 | 24.191551 349968 |
| 27 | 84.823001 646924 | 8.594366 926962 | 77 | 241.902634 326414 | 24.509861 236152 |
| 28 | 87.964594 300514 | 8.912676 813146 | 78 | 245.044226 980004 | 24.828171 122336 |
| 29 | 91.106186 954104 | 9.230986 699330 | 79 | 248.185819 633594 | 25.146481 008520 |
| 30 | 94.247779 607694 | 9.549296 585514 | 80 | 251.327412 287183 | 25.464790 894703 |
| 31 | 97.389372 261284 | 9.867606 471698 | 81 | 254.469004 940773 | 25.783100 780887 |
| 32 | 100.530964 914873 | 10.185916 357881 | 82 | 257.610597 594363 | 26.101410 667071 |
| 33 | 103.672557 568463 | 10.504226 244065 | 83 | 260.752190 247953 | 26.419720 553255 |
| 34 | 106.814150 222053 | 10.822536 130249 | 84 | 263.893782 901543 | 26.738030 439438 |
| 35 | 109.955742 875643 | 11.140846 016433 | 85 | 267.035375 555132 | 27.056340 325622 |
| 36 | 113.097335 529233 | 11.459155 902616 | 86 | 270.176968 208722 | 27.374650 211806 |
| 37 | 116.238928 182822 | 11 777465 788800 | 87 | 273.318560 862312 | 27.692960 097990 |
| 38 | 119.380520 836412 | 12.095775 674984 | 88 | 276.460153 515902 | 28.011269 984174 |
| 39 | 122.522113 490002 | 12.414085 561168 | 89 | 279.601746 169492 | 28.329579 870357 |
| 40 | 125.663706 143592 | 12.732395 447352 | 90 | 282.743338 823084 | 28.647889 756541 |
| 41 | 128.805298 797182 | 13.050705 333535 | 91 | 285.884931 476671 | 28.966199 642725 |
| 42 | 131.946891 450771 | 13.369015 219719 | 92 | 289.026524 130261 | 29.284509 528909 |
| 43 | 135.088484 104361 | 13.687325 105903 | 93 | 292.168116 783851 | 29.602819 415093 |
| 44 | 138.230076 757951 | 14.005634 992087 | 94 | 295.309709 437441 | 29.921129 301276 |
| 45 | 141.371669 411541 | 14.323944 878271 | 95 | 298.451302 091030 | 30.239439 187460 |
| 46 | 144.513262 065130 | 14.642254 764454 | 96 | 301.592894 744620 | 30.557749 073644 |
| 47 | 147.654854 718720 | 14.960564 650638 | 97 | 304.734487 398210 | 30.876058 959828 |
| 48 | 150.796447 372310 | 15.278874 536822 | 98 | 307.876080 051800 | 31.194368 846012 |
| 49 | 153.938040 025900 | 15.597184 423006 | 99 | 311.017672 705390 | 31.512678 732195 |
| 50 | 157.079632 679490 | 15.915494 309190 | 100 | 314.159265 358979 | 31.830988 618379 |

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## Fortsetzung dieser Tafel.

### Vielfache von $\pi$ in 30 Dezimalstellen.

Beim Gebrauche dieser Abtheilung wird die Endziffer (die 12. Dezimalstelle im Ausdrucke von N$\pi$) in der vorangehenden Abtheilung um 1 vermindert, so oft die Zahl hier mit einer Ziffer über 4 anfängt.

| N | Nπ | | | N | Nπ | | | N | Nπ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 793238 | 462643 | 383280 | 34 | 970107 | 729875 | 031503 | 67 | 146976 | 997106 | 679727 |
| 02 | 586476 | 925286 | 766559 | 35 | 763346 | 192518 | 414783 | 68 | 940215 | 459750 | 063006 |
| 03 | 379715 | 387930 | 149839 | 36 | 556584 | 655161 | 798062 | 69 | 733453 | 922393 | 446286 |
| 04 | 172953 | 850573 | 533118 | 37 | 349823 | 117805 | 181342 | 70 | 526692 | 385036 | 829565 |
| 05 | 966192 | 313216 | 916398 | 38 | 143061 | 580448 | 564621 | 71 | 319930 | 847680 | 212845 |
| 06 | 759430 | 775860 | 299677 | 39 | 936300 | 043091 | 947901 | 72 | 113169 | 310323 | 596124 |
| 07 | 552669 | 238503 | 682957 | 40 | 729538 | 505735 | 331180 | 73 | 906407 | 772966 | 979404 |
| 08 | 345907 | 701147 | 066236 | 41 | 522776 | 968378 | 714460 | 74 | 699646 | 235610 | 362683 |
| 09 | 139146 | 163790 | 449516 | 42 | 316015 | 431022 | 097739 | 75 | 492884 | 698253 | 745963 |
| 10 | 932384 | 626433 | 832795 | 43 | 109253 | 893665 | 481019 | 76 | 286123 | 160897 | 129242 |
| 11 | 725623 | 089077 | 216075 | 44 | 902492 | 356308 | 864298 | 77 | 079361 | 623540 | 512522 |
| 12 | 518861 | 551720 | 599354 | 45 | 695730 | 818952 | 247578 | 78 | 872600 | 086183 | 895801 |
| 13 | 312100 | 014363 | 982633 | 46 | 488969 | 281595 | 630857 | 79 | 665838 | 548827 | 279081 |
| 14 | 105338 | 477007 | 365913 | 47 | 282207 | 744239 | 014137 | 80 | 459077 | 011470 | 662360 |
| 15 | 898576 | 939650 | 749193 | 48 | 075446 | 206882 | 397416 | 81 | 252315 | 474114 | 045640 |
| 16 | 691815 | 402294 | 132472 | 49 | 868684 | 669525 | 780696 | 82 | 045553 | 936757 | 428919 |
| 17 | 485053 | 864937 | 515752 | 50 | 661923 | 132169 | 163975 | 83 | 838792 | 399400 | 812199 |
| 18 | 278292 | 327580 | 899031 | 51 | 455161 | 594812 | 547255 | 84 | 632030 | 862044 | 195478 |
| 19 | 071530 | 790224 | 282311 | 52 | 248400 | 057455 | 930534 | 85 | 425269 | 324687 | 578758 |
| 20 | 864769 | 252867 | 665590 | 53 | 041638 | 520099 | 313814 | 86 | 218507 | 787330 | 962037 |
| 21 | 658007 | 715511 | 048870 | 54 | 834876 | 982742 | 697093 | 87 | 011746 | 249974 | 345317 |
| 22 | 451246 | 178154 | 432149 | 55 | 628115 | 445386 | 080373 | 88 | 804984 | 712617 | 728596 |
| 23 | 244484 | 640797 | 815429 | 56 | 421353 | 908029 | 463652 | 89 | 598223 | 175261 | 111876 |
| 24 | 037723 | 103441 | 198708 | 57 | 214592 | 370672 | 846932 | 90 | 391461 | 637904 | 495155 |
| 25 | 830961 | 566084 | 581988 | 58 | 007830 | 833316 | 230211 | 91 | 184700 | 100547 | 878435 |
| 26 | 624200 | 028727 | 965267 | 59 | 801069 | 295959 | 613491 | 92 | 977938 | 563191 | 261714 |
| 27 | 417438 | 491371 | 348547 | 60 | 594307 | 758602 | 996770 | 93 | 771177 | 025834 | 644994 |
| 28 | 210676 | 953014 | 731826 | 61 | 387546 | 221246 | 380050 | 94 | 564415 | 488478 | 028273 |
| 29 | 003915 | 416658 | 115106 | 62 | 180784 | 683889 | 763329 | 95 | 357653 | 951121 | 411553 |
| 30 | 797153 | 879301 | 498385 | 63 | 974023 | 146533 | 146609 | 96 | 150892 | 413764 | 794832 |
| 31 | 590392 | 341944 | 881665 | 64 | 767261 | 609176 | 529888 | 97 | 944130 | 876408 | 178112 |
| 32 | 383630 | 804588 | 264944 | 65 | 560500 | 071819 | 913168 | 98 | 737369 | 339051 | 561391 |
| 33 | 176869 | 267231 | 648224 | 66 | 353738 | 534463 | 296447 | 99 | 530607 | 801694 | 944671 |

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# Erläuterungen

und

# Anwendungen vorstehender Tafeln.

*Mais ce champ ne se peut tellement moissoner,*
*Que les derniers venus n'y trouvent à glaner.*
Lafontaine.

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# I. Einrichtung der Tafel für Quadrat- und Kubikzahlen.

## §. 1.

Die Quadrat- und Kubikzahlen werden gewöhnlich auf zweierlei Weise geordnet: entweder erscheinen, wie beim Vega, die Quadratzahlen für sich abgesondert in natürlicher Ordnung aufsteigend in einer, und eben so die Kubikzahlen in einer andern Tafel: oder, was für manche Zwecke vortheilhafter ist, die Quadrat- und Kubikzahlen einer und derselben Grundzahl stehen in abgesonderten Spalten neben einander, und laufen so in natürlicher Ordnung fort. In der vorstehenden Tafel sind aber die Quadrat- und Kubikzahlen, theils wegen der Ersparniß des Raumes, theils ihrer einfacheren Berechnung halber, nach Gruppen zu 10000 so geordnet, daß man in der ersten Doppelspalte, indem man vom Anfange der Tafel Seite 2, bis zu ihrem Ende Seite 401, fortschreitet, überall nur die Quadrat- und Kubikzahlen unter 10000, in der zweiten Spalte hingegen die Quadrat- und Kubikzahlen zwischen 10000 und 20000, in der dritten die zwischen 20000 und 30000 und s. f. in der zehnten oder letzten Spalte endlich die zwischen 90000 und 100000 antrifft; es stehen daher beim Aufschlagen des Buches die Quadrat- und Kubikzahlen aller Zahlen, welche nach der konstanten Differenz 10000 aufsteigen, in derselben horizontalen Zeile.

Z. B. Seite 2 und 3 in der mit 43 bezeichneten horizontalen Zeile findet man die Quadrat- und Kubikzahlen der Zahlen

43, 10043, 20043, 30043, 40043, 50043, 60043, 70043, 80043 und 90043

und eben so Seite 258 und 259 in der mit 29 bezeichneten Zeile die Quadrat- und Kubikzahlen von

6429, 16429, 26429, 36429, 46429, 56429, 66429, 76429, 86429, 96429.

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## §. 2.

Man kann an allen dieser Art Zahlen dreierlei Ziffern unterscheiden, die Anfangsziffern oder den Kopf der Zahl, die mittleren oder den Körper, und die vier Endziffern oder den Fuß derselben. Da die Anfangsziffern mehrerer in natürlicher Ordnung auf einander folgenden Quadrat- oder Kubikzahlen sich nicht ändern, und die vier Endziffern dieser Zahlen, wenn ihre Grundzahlen nach der Differenz 10000 aufsteigen, also nach §. 1 in einer und derselben horizontalen Zeile gelegen sind, durchaus denselben Werth behalten; so erzielt man eine bedeutende Ersparniß des Raumes und gewinnt nebstbei an der Korrektheit der Tafel, wenn man diese zwei Gattungen von Ziffern, nämlich den Kopf und den Fuß einer Zahl in der Tafel nur einmal ansetzt. Aus diesem Grunde enthält jede vertikale Spalte in breiteren Ziffern als Aufschrift den Kopf und zwar links für die Quadratzahlen dieser Spalte, rechts für die Kubikzahlen, und indem man in der Spalte von oben nach unten herabfährt, den Körper derjenigen Quadrat- und Kubikzahlen, deren Grundzahlen in natürlicher Ordnung aufsteigen. Die Einheiten und Zehner dieser Grundzahlen stehen in der mit N. bezeichneten Spalte, die Hunderte aber und höheren Stellen derselben, welche man auch die Kopfziffern der Grundzahl benennen kann, in der obersten horizontalen Zeile, wo sie in breitern Ziffern erscheinen.

Z. B. Seite 2 findet man in der vertikalen Spalte, welche die Zahl 300 zur Aufschrift hat, in der Abtheilung $N^2$ die Zahlen

000, 006, 012, 018, 024, 030, 036 u. s. f.

und in der Abtheilung $N^3$ die Zahlen

0000000, 0270009, 0540036, 0810081, 1080144, 1350255, 1620324 u. s. f.

jene sind die Mittelziffern der Quadratzahlen, diese die der Kubikzahlen von

30000, 30001, 30002, 30003, 30004, 30005, 30006 u. s. f.

Der gemeinschaftliche Kopf der ersteren ist 90, der letzteren Zahlen aber 270.

## §. 3.

So oft der Kopf der Zahlen einer Spalte um eine Einheit wächst, ist es dadurch angezeigt, daß der Körper dieser Zahl, bei welcher die Aenderung Statt hat, mit einem Stern (*) anfängt; es erhalten daher alle auf diese Zahl in derselben vertikalen Spalte folgenden Zahlen einen um eine Einheit vergrößerten Kopf. Ist hingegen, was äußerst selten geschieht, für weiter unten folgende Zahlen, die Aenderung des Kopfes gleich 2 Ein-

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heiten, so wird diese Zunahme der Kopfziffern bei jener Zahl, wo sie eintritt, mit einem Ausrufungszeichen (!) bezeichnet. Nebstbei vertreten diese zwei Zeichen (* und !) immer die Ziffer 0 an jener Stelle, wo sie erscheinen. Z. B. der Kopf der vorbenannten Zahlen §. 2 ist in der Abtheilung $N^3$ bis zur Grundzahl 30036 gleich 270, von da an aber für die folgenden Grundzahlen 30037, 30038, 30039 u. s. f. gleich 271.

Was nun den Fuß oder die vier Endziffern einer Quadrat- oder Kubikzahl anbelangt, so stehen diese in der ersten vertikalen Doppelspalte in den beiden mit $N^2$ und $N^3$ bezeichneten Abtheilungen von den höheren Stellen abgesondert, und gehören umgeändert für die Zahlen der übrigen 9 vertikalen Spalten, welche in derselben horizontalen Zeile mit jenen gelegen sind. So haben z. B. Seite 2 die Quadrate der Grundzahlen

43, 10043, 20043, 30043, 40043, 50043, 60043, 70043, 80043, 90043

die Endziffern 1849, und ihre Kubikzahlen die Endziffern 9507 gemeinschaftlich.

Indem man also den Kopf dem Körper vorsetzt, und den Fuß nachfolgen läßt, ergibt sich beim Zusammenstellen dieser drei Bestandtheile sofort die verlangte Quadrat- oder Kubikzahl.

## §. 4.

Hiernach findet man die Quadrat- oder Kubikzahl einer gegebenen drei-, vier- oder fünfziffrigen Grundzahl, wenn man

1. die Hunderte dieser Zahl (worunter auch alle höheren Stellen derselben verstanden werden) in der obersten horizontalen Zeile aufsucht. Bei fünfziffrigen Zahlen schlägt man das Buch da auf, wo die auf die oberste Ziffer der Grundzahl folgenden 2 Stellen in der ersten Doppelspalte vorkommen, da sich dann die Spalte leicht ergibt, wo alle drei höheren Stellen der Grundzahl als Aufschrift erscheinen, sodann

2. in derjenigen vertikalen Spalte, welche die gegebenen Hunderte zur Aufschrift hat, so weit herabfährt, bis man in die horizontale Zeile gelangt, welche durch die zwei Endziffern der gegebenen Grundzahl führt: die daselbst befindliche Zahl ist nun der Körper der verlangten Quadrat- und Kubikzahl (§. 2), zu welcher nur noch der Kopf und der Fuß nach §. 3 hinzugeschrieben wird.

Sei z. B. N=88198, da 81 in der ersten Doppelspalte erst Seite 328 als Aufschrift erscheint, so findet man die Hunderte 881 Seite 329 in der achten vertikalen Spalte, und es ist 777 der Kopf zu $N^2$, der



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Körper 871, der Fuß 0809, somit $N^2=7778710809$: hingegen ist für $N^3$ der Kopf 684, welcher um 2 Einheiten vergrößert werden muß, weil der zugehörige Körper der Kubikzahl unter dem Zeichen (!) anzutreffen ist, man findet ihn gleich 05895722, indem wegen §. 3 das Zeichen (!) mit 0 zu ersetzen kommt, und den Fuß aus der ersten Doppelspalte 1373, daher $N^3=686058957221373$.

Ganz eben so ergibt sich für

N=10043, Seite 2, $N^2=100861849$, $N^3=1012955549507$
N=30997, Seite 40, $N^2=960814009$, $N^3=29782351836973$
N=96429, Seite 259, $N^2=9298552041$, $N^3=896650074761589$ u. s. f.

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## II. Berechnung dieser Art Tafeln.

### §. 5.

Man sieht, daß bei dieser Anordnung der Quadrat- und Kubikzahlen über die Hälfte des Raumes, welchen sonst ihre Anfangs- und Endziffern eingenommen hätten, erspart wird. Betrachten wir z. B die Seite 305: die Kopfziffern dieser Seite betragen allein 30 Ziffern, welche durch alle 50 Zeilen sich fast ungeändert wiederholen, und eben so viele Ziffern wiederholen sich in den Kopfziffern der Grundzahlen, dies gibt 3000 ersparte Ziffern, schlägt man hierzu die 2000 abgängigen Endziffern; so belauft sich das Ganze auf 5000 Ziffern, während auf dieser Seite bloß 2587 Ziffern wirklich vorhanden sind. Allein auch für die Konstruktion der Tafeln bietet diese Anordnung unverkennbare Vortheile.

Begreiflich bilden die Quadrate natürlicher Zahlen eine arithmetische Reihe zweiter Ordnung, und die Kubikzahlen eine arithmetische Reihe der dritten Ordnung, und man hat zur Bestimmung jener zwei und zur Bestimmung dieser drei Differenzreihen zu summiren. So kurz und bündig diese Methode auch ist, so oft man eine Reihe auf einander folgenden Quadrat- oder Kubikzahlen zu berechnen hat; so läßt sie sich bei der Konstruktion einer Tafel, wie die vorliegende, noch bedeutend vereinfachen, indem ich zeige, daß sowohl die Quadrat- als auch die Kubikzahlen wie die Glieder einer arithmetischen Reihe der ersten Ordnung berechnet werden können. Um dieses einzusehen, denke man sich eine aus mehreren Ziffern bestehende Zahl N von der Rechten zur Linken in zwei Klassen getheilt, deren erste die n Endziffern der Zahl N, die zweite aber ihre höheren

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Stellen enthält: bezeichnet man die numerischen Werthe dieser Klassen beziehungsweise mit $\alpha$ und $\beta$, so erhält man

$N=\beta.10^n+\alpha$. Dieses gibt

$N^2=[\beta.10^n+\alpha]^2=\beta^2.10^{2n}+2\alpha\beta.10^n+\alpha^2=(\beta^2.10^n+2\alpha\beta)10^n+\alpha^2$

$N^3=\beta^3.10^{3n}+3\beta^2\alpha.10^{2n}+3\beta\alpha^2.10^n+\alpha^3=(\beta^3.10^{2n}+3\beta^2\alpha.10^n+3\beta\alpha^2)10^n+\alpha^3$.

Theilt man nun die Zahlen $N^2$ und $N^3$ von der Rechten zur Linken gleichfalls in n ziffrige Klassen; so zeigen diese Ausdrücke, daß welchen Werth auch $\beta$ hat, die erste Klasse in $N^2$ und $N^3$, aus denselben Ziffern bestehen wird, welche in $\alpha^2$ und $\alpha^3$ beziehungsweise als Endziffern erscheinen. Setzt man also nach einander $\beta=1, 2, 3, 4\ldots$, so ist klar daß die n Endziffern den um $10^n$ aufsteigenden Zahlen

$$\alpha^2,\ (10^n+\alpha)^2,\ (2.10^n+\alpha)^2,\ (3.10^n+\alpha)^2+\ldots \text{ und}$$
$$\alpha^3,\ (10^n+\alpha)^3,\ (2.10^n+\alpha)^3,\ (3.10^n+\alpha)^3+\ldots$$

gemeinschaftlich angehören.

## §. 6.

Bekanntlich haben der berühmte Jesuit Guldin und späterhin der Ingenieur Séguin in ihren schon im Vorworte citirten Werken die Tafeln der Quadrat- und Kubikzahlen bis 10000 herausgegeben. Man brauchte daher beide Werke bloß sorgfältig zu vergleichen, und die nicht übereinstimmenden Stellen einer neuen Rechnung zu unterziehen, um die 4 Endziffern in sämmtlichen Quadrat- und Kubikzahlen, bis zur Grundzahl 100000 zu erhalten. Zur Bestimmung der darauf folgenden höhern Stellen in den Quadrat- und Kubikzahlen d. i. der numerischen Werthe ihrer zweiten Klasse, setze man $\alpha^2=b.10^n+a$, und eben so $\alpha^3=B.10^n+A$, wo im vorliegenden Falle $n=4$ ist, also a und A die 4 Endziffern in $\alpha^2$ und $\alpha^3$ beziehungsweise vorstellen; so folgt nach Substituirung dieser Werthe in den Ausdrücken für $N^2$ und $N^3$ (§. 5)

$$N^2=(\beta^2.10^n+2\alpha\beta+b)10^n+a$$
$$N^3=(\beta^3.10^{2n}+3\beta^2\alpha.10^n+3\alpha\beta^2+B)10^n+A$$

der numerische Werth der zweiten Klasse in $N^2$ und $N^3$ ist folglich beziehungsweise $2\alpha\beta+b$, und $3\alpha^2\beta+B$. Macht man also nach einander $\beta$ und $B=1, 2, 3, \ldots 9$, so bilden die Ziffern der zweiten Klasse in den Quadrat- und Kubikzahlen die Glieder einer arithmetischen Reihe der ersten Ordnung, deren konstante Differenz in jenen $2\alpha$, in diesem aber $3\alpha^2$ ist, vorausgesetzt, daß man von dieser Klasse blos die n Endziffern beibehält. Hat man aber so die zwei ersten Klassen einer Quadrat- oder Kubikzahl bestimmt; so ergeben sich sofort auch die übrigen höheren Zif-



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fern derſelben, welche bei den Quadratzahlen ſich unmerklich ändern, und bei den Kubikzahlen um nahe gleiche Differenzen fortſchreiten.

### Beiſpiele:

Für die Zahlen, welche auf die Zahl $\alpha=3700$ in natürlicher Ordnung folgen, ſind die Quadrate der Zahlen $10^4+\alpha$, $2.10^4+\alpha$, $3.10^4+\alpha$ u. ſ. f. in folgender Tafel enthalten.

| $\alpha$ | $\alpha^2$ | $(10^4+\alpha)^2$ | $(2.10^4+\alpha)^2$ | $(3.10^4+\alpha)^2$ | Differenz der 2. Klaſſe |
|---|---|---|---|---|---|
| 3700 | 1369 0000 | 18769 0000 | 56169 0000 | 113569 0000 | 7400 |
| 3701 | 69 7401 | 71 7401 | 73 7401 | 575 7401 | 7402 |
| 3702 | 70 4804 | 74 4804 | 78 4804 | 582 4804 | 7404 |
| 3703 | 71 2209 | 77 2209 | 83 2209 | 589 2209 | 7406 |
| 3704 | 71 9616 | 79 9616 | 87 9616 | 595 9616 | 7408 |
| 3705 | 72 7025 | 82 7025 | 92 7025 | 602 7025 | 7410 |

hingegen liefern die dritten Potenzen dieſer Grundzahlen die Tafel

| $\alpha$ | $\alpha^4$ | $(10^4+\alpha)^3$ | $(2.10^4+\alpha)^3$ | Differenz der 2. Klaſſe. |
|---|---|---|---|---|
| 3700 | 506 5300 0000 | 25713 5300 0000 | 133120 5300 0000 | 0000 |
| 3701 | 6 9408 1101 | 19 1611 1101 | 137 3814 1101 | 2203 |
| 3702 | 7 3518 4408 | 24 7930 4408 | 154 2342 4408 | 4412 |
| 3703 | 7 7630 9927 | 30 4257 9927 | 171 0884 9927 | 6627 |
| 3704 | 8 1745 7664 | 36 0593 7664 | 187 9441 7664 | 8848 |
| 3705 | 8 5862 7625 | 41 6937 7625 | 204 8012 7625 | 1075 |

woraus zu erſehen iſt, daß in derſelben horizontalen Zeile ſowohl die 4 Endziffern der Quadrat- und Kubikzahlen ſich wiederholen, als auch ihre 4 höheren Stellen nach gleichen Differenzen fortſchreiten.

### §. 7.

Da die Differenzen der 2. Klaſſe in den Quadratzahlen gerade Zahlen ſind, und nur in den beiden Endziffern von einander abweichen, ſo bilden dieſe nothwendig eine Periode von beziehungsweiſe 25 und 50 Gliedern, nach welcher ſie in derſelben Ordnung wiederkehren. Man kann alſo mittelſt einer Hülfstafel dieſe Perioden im Voraus berechnen, und erſpart ſich ſo die Mühe der ſtuffenweiſen Addition dieſer Differenzen, indem man für den ganzen Umfang der Tafel die Zahlen der 2. Klaſſe aus derſelben herausſchreibt. Eine ſolche Tafel liefert die erſte der Hülfstafeln Seite 404, wo das Ende der Periode mittelſt eines Ausrufungszeichens (!) angedeutet iſt. Dieſe Tafel enthält in der oberſten horizontalen Zeile die Differenzen 04, 06... bis 48, in der unterſten Zeile aber die Differenzen 96, 94, 92... bis 52 in breiterer Schrift. Verlangt man nun die Glieder einer arithmetiſchen Reihe, deren konſtante Differenz *oben* ſteht, ſo geht man mit dem Anfangsgliede dieſer Reihe in diejenige Spalte, welche die gleichfalls

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gegebene Differenz zur Aufschrift hat, und schreibt die in derselben vertikal nachfolgenden Zahlen heraus: wofern aber die gegebene Differenz unten vorkömmt, so steigt man in derselben Spalte von dem gegebenen Anfangsgliede aufwärts. Z. B. Sei 31 das Anfangsglied und 42 die konstante Differenz einer arithmetischen Reihe, so findet man in der mit 42 bezeichneten vertikalen Spalte unter 31 sofort die Zahlen 73, 15, 57, 99, 41, 83, 25 u. s. f. und bei demselben Anfangsgliede und der Differenz 58 erhält man beim Aufwärtssteigen die Zahlen 89, 47, 05, 63, 21, 79 u. s. f.

## §. 8.

Ganz eben so ließen sich die Tafeln für die höheren Potenzen natürlicher Zahlen, und auch für Produkte zweier oder mehreren ungleichen Faktoren entwerfen. Immer gibt es bei derlei Zahlen eine Periode, nach deren Ablauf die Endziffern sich wiederholen, und die höheren Stellen nach derselben Differenz aufsteigen. Um die höheren Potenzen der ersten Periode zu bestimmen, kann man sich der Quadrat- und Kubikzahlen mit merklicher Abkürzung der Rechnung bedienen, wenn man erwägt, daß $(N^2)^2 = N^4$, $N^2.N^3 = N^5$, $(N^2)^3 = N^6$, $(N^2)^2.N^3 = N^7$, $(N^4)^2 = N^8$, $(N^3)^3 = N^9$ u. s. f. sei. Bei den unter dem Namen Binomialkoeffizienten vorkommenden Zahlen, wenn bloß drei Endziffern sich wiederholen sollen, ist die Periode beim zweiten und dritten Binomialkoeffizienten gleich 2000, beim vierten 4000, beim fünften 20000 u. s. f. wie es aus folgenden Bruchstücken einer von mir angefertigten Tafel ersichtlich wird.

Tafel für den zweiten und dritten Binomialkoeffizienten.

| $\alpha$ | 7 | | 27 | | 47 | | 67 | | 87 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | $\binom{\alpha}{2}$ | $\binom{\alpha}{3}$ | $\binom{\alpha}{2}$ | $\binom{\alpha}{3}$ | $\binom{\alpha}{2}$ | $\binom{\alpha}{3}$ | $\binom{\alpha}{2}$ | $\binom{\alpha}{3}$ | $\binom{\alpha}{2}$ | $\binom{\alpha}{3}$ |
| | 2 | 5 | 3 | 3 | 11 | 17 | 22 | 50 | 37 | 10 |
| 00 | 44 650 | 6921 900 | 643 | 276855 | 042 | 292789 | 441 | 104723 | 840 | 9712657 |
| 01 | 45 350 | 7166 550 | 46 | 80499 | 47 | 303832 | 48 | 27165 | 49 | 750498 |
| 02 | 46 051 | 7411 900 | 49 | 84155 | 52 | 14879 | 55 | 49613 | 58 | 788347 |
| 03 | 46 753 | 7657 951 | 51 | 87794 | 56 | 25931 | 61 | 72068 | 66 | 826205 |
| 04 | 47 456 | 7904 704 | 54 | 91446 | 61 | 36988 | 68 | 94530 | 75 | 864072 |
| 05 | 48 160 | 8152 160 | 57 | 95101 | 66 | 48050 | 75 | 216999 | 84 | 901948 |
| 06 | 48 865 | 8400 320 | 59 | 98758 | 70 | 59116 | 81 | 39174 | 92 | 939832 |
| 07 | 49 571 | 8649 185 | 62 | 302418 | 75 | 70187 | 88 | 61956 | 901 | 977725 |
| 08 | 50 278 | 8898 756 | 65 | 06080 | 80 | 81262 | 95 | 84444 | 10 | *015626 |
| 09 | 50 986 | 9149 034 | 67 | 09746 | 84 | 92343 | 501 | 306940 | 18 | 053537 |

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Tafel für den vierten Binomialkoeffizienten.

| $\alpha$ | 7 | 47 | 87 | 127 | 167 |
|---|---|---|---|---|---|
| | | 20 | 23 | 108 | 32 |
| 00 | 9918641 075 | 306058540 | 8542746439 | 3423982338 | 39653766237 |
| 01 | 975562 975 | 23351329 | 652459096 | 765298863 | 40429870630 |
| 02 | 10032729 525 | 40655162 | 762209595 | 4106696028 | 1206114461 |
| 03 | 090141 425 | 57970042 | 871997943 | 448173844 | 1982497745 |
| 04 | 147799 376 | 75295974 | 981824149 | 789732324 | 2759020499 |
| 05 | 205704 080 | 92632963 | 9091688222 | 5131371481 | 3535682740 |
| 06 | 263856 240 | 409981013 | 201590170 | 473091327 | 4312484484 |
| 07 | 322256 560 | 27340129 | 311530002 | 814891875 | 5089425748 |
| 08 | 380905 745 | 44710316 | 421507727 | 6156773138 | 5866506549 |
| 09 | 439804 501 | 62091579 | 531523354 | 498735129 | 6643726904 |

Diese zwei Tafeln haben, wie man sieht, dieselbe Einrichtung wie die voranstehende Tafel der Quadrat- und Kubikzahlen, und man erhält aus ihnen z. B.

$\binom{707}{2}=249571$, $\binom{6707}{2}=22488571$, $\binom{703}{3}=57657951$, $\binom{4703}{3}=17325931951$

$\binom{709}{4}=10439804501$, $\binom{12709}{4}=1086498735129501$ u. s. f.

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## III. Anwendungen der Quadrat- und Kubikzahlen zur Lösung der verschiedenen Aufgaben.

### §. 9.

Wenn gleich diese Tafel der Quadrat- und Kubikzahlen nur auf fünfziffrige Grundzahlen sich beschränkt; so läßt sich leicht ihr Gebrauch auf die Berechnung der Quadrat- und Kubikzahlen, mehrziffriger Grundzahlen erweitern. Setzen wir zu diesem Ende in den Ausdrücken §. 6, $n=5$, so ergibt sich für $N=\beta.10^5+\alpha$, wenn $\beta$ nicht über 5 Ziffern steigt,

$$N^2=(\beta^2.10^5+2\alpha\beta+b)10^5+a,\quad N^3=(\beta^3.10^{10}+3\beta^2\alpha.10^5+3\beta\alpha^2+B)10^5+A$$

setzen wir ferner im Ausdrucke für $N^2$ die Größe $2\alpha\beta=b'.10^5+a'$, wo $a'$ die 5 Endziffern dieses Produktes, und $b'$ dessen höhern Stellen bezeichnet, so erhalten wir nach Substitution dieses Werthes von $2\alpha\beta$

$$N^2=(\beta^2+b')10^{10}+(a'+b)10^5+a$$

Verfahren wir eben so mit dem Ausdrucke für $N^3$, und setzen

$$3\beta\alpha^2=B'.10^5+A',\ 3\beta^2\alpha=B''.10^5+A'',\ \text{so folgt}$$

$$N^3=(\beta^3+B'')10^{15}+(A''+B')10^{10}+(A'+B)10^5+A$$

woraus zu ersehen ist, daß das Quadrat einer mehrziffrigen Zahl $N=\beta.10^5+\alpha$, in welcher $\beta$ höchstens 5 Ziffern enthält und $\alpha$ eine fünfziffrige Zahl bedeutet, aus drei, und der Kubus derselben aus vier

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Klassen besteht, deren jede mit Ausnahme der letzten Klasse, die auch mehr als 5 Ziffern enthalten kann, blos fünfziffrig ist.

## §. 10.

Bei der Anwendung dieses Satzes auf die Erhebung einer mehrziffrigen Zahl zum Quadrat, hat man:

1. diese Zahl von der Rechten zur Linken in zwei fünfziffrige Klassen zu theilen, wobei die zweite Klasse links auch weniger als 5 Ziffern enthalten kann: es seien $\alpha$, $\beta$ die numerischen Werthe dieser Klassen, suche

2. in der Tafel die Werthe von $\alpha^2$, $\beta^2$ und berechne nebstbei das Produkt $2\alpha\beta$, und schreibe

3. diese Ergebnisse so unter einander, daß die Einheiten in $\alpha^2$ um 5 Ziffern rechts über die Einheiten von $2\alpha\beta$, und diese wieder um eben so viel über die Einheiten in $\beta^2$ zu stehen kommen; so gibt die Summe dieser 3 Posten die verlangte Quadratzahl.

Beispiele. I. Sei $N=288917$, so ist hier $\alpha=88197$, $\beta=2$, und man erhält $2\alpha\beta=352788$ und aus der Tafel $\alpha^2=7778710809$, demnach

$\alpha^2=$ 77787 10809
$2\alpha\beta=$ 352788
$\beta^2=$ 4
$N^2=$ 830575 10809

II. Sei $N=123456789$, also $\alpha=56789$ $\beta=1234$ so erhält man $\alpha^2=3224990521$, $\beta^2=1522756$ $2\alpha\beta=140155252$; daher

$\alpha^2=$ 32249 90521
$2\alpha\beta=$ 1401 55252
$\beta^2=$ 1522756
$N^2=$ 1524157 87501 90521

III. Sei $N=3351009$, so ist hier $\alpha=51009$, $\beta=33$ demnach $2\alpha\beta=3366594$, die Tafel der Quadratzahlen gibt

$\alpha^2=$ 2601918081
$2\alpha\beta=$ 3366594
$\beta^2=$ 1089
$N^2=$ 11229261318081

## §. 11.

Ganz eben so verfährt man bei der Erhebung einer mehrziffrigen Zahl zur dritten Potenz, indem man die Werthe von $\alpha^3$, $\beta^3$ aus der Tafel nimmt, und die Produkte $3\alpha^2\beta$, $3\alpha\beta^2$ wirklich berechnet, wobei es vortheilhaft ist, vorher durch stuffenweise Addition des einen Faktors $3\alpha^2$,

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oder $3\beta^2$ die 9 Vielfachen desselben zu bestimmen. Hat man so die vier Theile eines Kubus gefunden, so schreibe man diese so unter einander, daß die Endziffer von $\alpha^3$ um 5 Stellen über die Endziffer von $3\alpha^2\beta$, und diese um eben so viel über die Endziffer von $3\alpha\beta^2$, endlich diese letztere um eben so viel über die Endziffer von $\beta^3$ zur Rechten zu stehen komme, und addire die so geordneten Posten.

**Beispiele.** I. Sei $N=288197$, so hat man $\alpha^2=778710809$, $\alpha^3=686058957221373$, $3\alpha^2\beta=46672264854$, $3\alpha\beta^2=1058364$: dies gibt

$\alpha^3=$ 68605 89572 21873
$3\alpha^2\beta=$ 466722 64854
$3\alpha\beta^2=$1058364
$\beta^3=$ 8

also $N^3=$2393692 54426 21373

II. Sei $N=123456789$ so steht die Rechnung so:
die Tafel liefert $\alpha^2=3224990521$, $\beta^2=1522756$, $\alpha^3=183143986697069$ $\beta^3=1879080904$, mit diesen Werthen findet man Vielfache von

| $3\alpha^2$ | | $3\beta^2$ |
|---|---|---|
| 9674971563 | 1 | 4568268 |
| 19349943126 | 2 | 9136536 |
| 29024914689 | 3 | 13704804 |
| 38699886252 | 4 | 18273072 |
| 48374857815 | 5 | 22841340 |
| 58049829378 | 6 | 27409608 |
| 67724800941 | 7 | 31977876 |
| 77399772504 | 8 | 36546144 |
| 87074744067 | 9 | 41114412 |

| | |
|---|---|
| 4 | 3 86998 86252 |
| 3 | 29 02491 4689 |
| 2 | 193 49943 126 |
| 1 | 967 49715 63 |
| $3\alpha^2\beta=$ | 1193 89149 08742 |
| 9 | 411 14412 |
| 8 | 3654 6144 |
| 7 | 31977 876 |
| 6 | 2 74096 08 |
| 5 | 22 84134 0 |
| $3\alpha\beta^2=$ | 25 94273 71452 |

und bei Zusammenstellung dieser Ergebnisse erhält man

$\alpha^3=$ 18314 39866 97069
$3\alpha^2\beta=$ 1193 89149 08742
$3\alpha\beta^2=$ 2594273 71452
$\beta^3=$1879080904

$N^3=$1881676371 78915 48608 97069

III. Sei $N=3358518793$, so ist $\beta=33585$, $\alpha=18793$, und man erhält aus der Tafel $\beta^3=37882275476625$, $\beta^2=1127952225$, $\alpha^3=6537252523257$, $\alpha^2=1873176849$, also berechnet man nun $3\alpha^2\beta=188731933420995$, $3\alpha\beta^2=63592818493275$, und stellt diese Resultate gehörig zusammen, so ergibt sich

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$\alpha^3 =$ 6537252523257
$3\alpha^2\beta =$ 188731933420995
$3\alpha\beta^2 =$ 63592818493275
$\beta^3 =$ 37882275476625

$N^3 = 378829114236831326293420232 57$

## § 12.

Nicht unwichtig ist die Anwendung der Tafel der Quadrat- und Kubikzahlen auf die Bestimmung der Quadrat- und Kubikwurzeln aus einer vorgelegten Zahl, weil man schon durch bloßes Nachschlagen dieser Zahl in der Tafel sofort die 5 richtigen Stellen in der verlangten Wurzel ohne anderweitige Rechnung finden kann.

Um nun zuvörderst die Quadratwurzel aus einer vorgelegten Zahl zu bestimmen, bemerke man daß 10000 die kleinste fünfziffrige Zahl ist, deren Quadrat 9 Ziffern enthält, und daß 31623 die kleinste fünfziffrige Zahl ist, deren Quadrat auf 10 Ziffern steigt; es muß daher, will man anders durch Nachschlagen der Tafel die 5 Stellen ihrer Quadratwurzel auf einmal finden, die gegebene Zahl 9 oder 10 Ziffern besitzen. Hat sie ihrer weniger, so fügt man vorläufig so viele Nullenpaare zur Rechten an dieselbe, bis die Ziffernanzahl auf 9 oder 10 steigt, dann gibt die Zahl der verwendeten Nullenpaare die Zahl der Dezimalstellen in der gefundenen Wurzel: hat sie aber mehr als 10 Ziffern, so schneidet man von der Rechten zur Linken so viele Ziffernpaare ab, bis die Zahl links nur noch 9 oder 10 Ziffern enthält, und dieß ist ein Zeichen, daß die gesuchte Quadratwurzel aus mehr als 5 Stellen besteht.

Eine so vorbereitete Zahl mit 9 oder 10 Ziffern ist nun unter den Quadratzahlen der Tafel aufzusuchen. Da die erste Doppelspalte auf jeder Seite der Tafel die Quadrate vierziffriger Zahlen liefert; so hat man die 3 Anfangsziffern der Zahl nicht in dieser, sondern unter den Kopfziffern der 9 übrigen vertikalen Spalten zu suchen, und zwar unter den Quadraten der Zahlen zwischen 10000 und 31622, wenn die Zahl blos 9 Ziffern enthält, dagegen unter den Quadraten der Zahlen über 31622 wenn sie zehnziffrig ist. Diejenige Quadratzahl, welche zunächst kleiner ist als die gegebene Zahl, so daß die nächstfolgende schon diese Zahl übertrifft, liefert die gesuchten 5 Ziffern ihrer Wurzel, indem man an die drei Kopfziffern der Grundzahl ihre zwei Endziffern aus den Spalten N und in der durch die gefundene nächst kleinere Quadratzahl gezogenen horizontalen Linie genommen, anhängt.

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Verlangt man mehr als 5 Stellen in der Quadratwurzel, so ziehe man die gefundene nächst kleinere Quadratzahl von der gegebenen Zahl ab, und dividire den Rest, durch das Doppelte der in 5 Stellen gefundenen Wurzel, der so bestimmte fünfziffrige Quotient liefert fünf neue richtige Stellen der gesuchten Quadratwurzel u. s. f.

Beispiele. Sei I. N=124, da hier blos 3 Ziffern vorhanden sind, so hat man zur Ergänzung dieser Zahl 6 Nullen anzuhängen. Man erhält also, Seite 46.

$\sqrt{124}=\sqrt{124.000000}=11.135$

$(11.125)^2=\ 123.988225$

Rest 11775, nun ist $2\times11.135=22.270$ und

$11775 : 2227=52873$, daher $\sqrt{124}=11.13652873$.

Sei II. N=11267030540520, man sucht $\sqrt{N}$, so hat man aus der Tafel

$\sqrt{11267030540520}=33566$

$(33566)^2=1126676356$

Rest $266980520 : 67132=39769$

demnach ist $\sqrt{N}=3356639.769$.

Sei III. N=75665480319, die Tafel liefert

$(27507)^2=756635049$

$1975419 : 55014=35908$

mithin $\sqrt{N}=275073.5908$.

## §. 13.

Bei der Bestimmung der Kubikwurzel aus einer gegebenen Zahl, muß diese auf 13, 14 oder 15 Ziffern ergänzt werden, indem man an dieselbe stets eine durch drei theilbare Zahl von Nullen, mithin 3, 6, 9 oder 12 Nullen anhängt. Hat die so vorbereitete Zahl 13 Ziffern, so steckt ihre Wurzel zwischen 10000 und 21544, hat sie ihrer 14, so ist die Wurzel zwischen 21544 und 46415 und wenn sie 15 Ziffern besitzt, zwischen 46415 und 99999 enthalten; woraus sogleich erhellet, in welcher vertikalen Spalte der Tafel die Anfangsziffern der Zahl unter den Kopfziffern der Kubikzahlen zu suchen sind. Diejenige Kubikzahl, welche zunächst kleiner als die gegebene ergänzte Zahl ist, liefert auf die §. 12 angedeutete Weise die fünfstellige Zahl, welche als Kubikwurzel der vorgelegten Zahl und zwar in so vielen Dezimalstellen zu betrachten ist, als der dritte Theil der angehängten Nullen beträgt. Sollen aber mehr als 5 Stellen in der verlangten Kubikwurzel gefunden werden, so ziehe

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man die nächst kleinere Kubikzahl von der gegebenen Zahl ab, und dividire man nach den Vorschriften der abgekürzten Division den Rest, durch das Dreifache des der Tafel entnommenen Quadrates der bereits in der Wurzel gefundenen fünf Stellen; so gibt der Quotient fünf neue Stellen der Wurzel.

Beispiele. Sei I. $N=124$, durch Hinzufügung von 12 Nullen wird
$\sqrt[3]{124}=\sqrt[3]{124.000000000000}$, die nächst kleinere Kubikzahl steht S. 396
$(4.9866)^3=\quad 123.997690993896$

Rest $\quad 2309006104$; es ist aber eben da in der Tafel
$(4.9866)^2=24.86617956$, wovon das Dreifache $74.59853868$, und
$2309006104 : 7459853868=0.30952$, demnach
$\sqrt[3]{124}=4.986630952$ in 10 Sellen richtig.

Wie man nun diese Wurzel mittelst der Lambert'schen Formel in 30 Stellen bestimmen kann, ist in meinem Lehrbuche der höheren Analysis. Prag 1843, Band I. Seite 102 nachzuschlagen.

Sei II. $N=37882911445779585600$ man sucht $\sqrt[3]{N}$, so gibt die Tafel $(33585)^3=37882275476625$

Rest $\quad 635969154585600$

jener ist eben daselbst in der Tafel $(33585)^2=1127952225$ wovon das Dreifache zum Divisor des Restes genommen, gibt
$635969154585600 : 3383856675=187994$
somit ist $\sqrt[3]{N}=3358518.794$.

## §. 14.

Die eilfte der Hülfstafeln Seite 419 enthält die ersten hundert Vielfachen der Ludolph'schen Zahl $\pi$, und ihres reziproken Werthes $\pi^{-1}$, jene in 30 diese in 12 Dezimalstellen. Sie kann bei Berechnung des Inhaltes eines Kreises vom gegebenen Durchmesser, des Inhaltes einer Ellipse, deren Halbaxen bekannt sind, der Oberfläche und Kubikinhaltes einer Kugel und eines Sphäroids, des Kubikinhaltes eines Ellipsoids mit 3 ungleichen Axen, endlich auf die Lösung anderer damit verwandten Aufgaben mit Vortheil angewendet werden.

Beim Gebrauche dieser Tafel hat man die vorgegebene Zahl, deren Produkt in die Zahlen $\pi$ oder $\pi^{-1}$ gesucht wird, vorerst von der Linken zur Rechten in zweiziffrige Klassen abzutheilen, ohne alle Rücksicht, ob die Zahl eine ganze Zahl sei, oder aber nebstdem einen Dezimalbruch ent-

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hält, nur muß die letzte Klasse rechts, wenn sie etwa nur eine Ziffer besitzt, durch Hinzufügung einer Nulle ergänzt werden. Hierauf sucht man zu den numerischen Werthen einzelner Klassen das entsprechende Produkt in der Tafel, und zwar schreibt man das Produkt der ersten Klasse in so viel Stellen heraus, als es die beabsichtigte Genauigkeit der Rechnung erfordert: die Produkte der folgenden Klassen erhalten stufenweise um 2 Ziffern weniger, und man ordnet sie so, daß in jedem folgenden der Punkt um zwei Stellen weiter zur Rechten rückt, und summirt die so unter einander geschriebenen Posten auf die bekannte Weise.

Beispiele. Sei I. der Durchmesser eines Kreises $2a=6724560$ Klafter, man sucht seinen Umfang in 20 Ziffern, so steht die Rechnung so:

| | |
|---|---|
| 67 | 210.48 67 07 79 05 16 14 69 77 |
| 24 | 75.39 82 23 68 61 55 03 77 |
| 56 | 1 75.92 91 88 60 10 28 42 |
| | 211 25 82 82 94 62 37 80 01 96 |

$2a\pi=21125828.291623780020$

Sei II. $N=50510548593372780800$, man sucht $N\pi$ in 20 Stellen.

| | |
|---|---|
| 50 | 157.07 96 32 67 94 89 66 19 23 13 |
| 51 | 1 60.22 12 25 33 30 79 45 51 61 |
| 05 | 15.70 79 63 26 79 48 96 62 |
| 48 | 1 50.79 64 47 37 23 10 08 |
| 59 | 1 85.35 39 66 56 17 98 |
| 33 | 1 03.67 25 57 56 85 |
| 72 | 2 26.19 46 71 06 |
| 78 | 2 45.04 42 26 |
| 08 | 25.13 27 |
| | 158 68 35 68 38 97 30 19 26 82 86 |

man hat also $N\pi=158683568389730192683$.

Sei III. der Umfang eines Kreises gleich 123456789 Fuß, man frägt nach seinem Durchmesser x, so ist $x=123456789\,.\,\pi^{-1}$, und die Rechnung steht so:

| | |
|---|---|
| 12 | 3.81 97 18 63 42 05 |
| 31 | 10.82 25 36 13 02 |
| 56 | 17.82 53 53 63 |
| 78 | 24.82 81 71 |
| 90 | 28 64 79 |
| | 3 92 97 51 64 55 20 |

oder $x=39297516.4552$ Fuß.

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## §. 15.

Zuweilen kommen Fälle vor, wo die Rechnung mittelst der Logarithmentafeln, selbst jener auf 10 Dezimalstellen, mit der gewünschten Schärfe nicht gerichtet werden kann, da dann bei Anwendung vorstehender Tafeln schon eine bedeutende Ersparniß an Zeit und Mühe sich erzielen läßt. Um dieses an einem Beispiele zu zeigen, sei die Oberfläche und der Kubikinhalt unseres Erdballs in Wiener Klaftern zu bestimmen, wenn derselbe als ein durch die Umdrehung einer Ellipse um ihre kleine Axe entstandenes Sphäroid betrachtet wird. Bekanntlich ist die Oberfläche eines solchen Sphäroids $O=2a\pi(a+b^2n)$, wo Kürze halber

$$n=\frac{1}{\sqrt{(a^2-b^2)}}\lambda\frac{a+\sqrt{(a^2-b^2)}}{b}=\frac{1}{c}\lambda\frac{a+c}{b}=\frac{1}{c}\lambda m, \text{ für } m=\frac{a+c}{b},$$

$c=\sqrt{(a^2-b^2)}$ bedeutet und der Kubikinhalt desselben ist $K=\frac{4}{3}\pi a^2 b$. Die Werthe für die beiden Halbachsen a, b unserer Erde sind nach

| | a | b | |
|---|---|---|---|
| Bessel *) | 3272077.14 | 3261139.33 | Toisen |
| Kater **) | 3271852.32 | 3260853.70 | — |
| E. Schmidt ***) | 3271837.50 | 3260869.60 | — |
| das Mittel | 3271922.32 | und 3260954.21 | Toisen. |

Um diese Maße in Wiener Klafter zu verwandeln, bemerke man daß nach Prony in der Connaissance des tems für 1837 die Toise gleich 1.94903659Meter, und nach Stampfer (Jahrbücher des k. k. polytechnischen Instituts in Wien. Band XX. S. 154) eine Wiener Klafter gleich 1.8966580 Metres beträgt; man hat also die Toise gleich

1.94903659 : 1.8966580=1.0276162 Wiener Klafter:

hiemit wird in ganzen Zahlen a=3362280, b=3351009 Wiener Klafter.

Um zuvörderst den Flächeninhalt eines Erdmeridians zu bestimmen, multiplizire man die numerischen Werthe von a und b in einander, welches nach Bretschneider's Produktentafel, Hamburg 1841 bequem sich richten läßt, man erhält so ab=11267030540520. Die Quadratwurzel aus dieser Zahl liefert (nach §. 12, Beispiel II.) den Halbmesser r=3356639.769 eines Kreises, welcher mit dem Meridian der Erde gleichen Inhalt hätte, und das Produkt aus ab in $\pi$ gibt mit Beihülfe

*) Schuhmacher's astronom. Nachrichten N. 458.

**) Philosophical Transactions for the year 1821.

***) Lehrbuch der mathematischen und physischen Geographie. Göttingen 1829. I. B. S. 202

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der 11. Tafel den Werth $\pi ab = 35396420385869.5$ als Flächeninhalt eines Erdmeridianes in W. Quadratklaftern. Das Vierfache dieser Zahl nämlich 141585681543478 W. Quadratklafter wäre die Oberfläche der Erde, wenn diese als eine Kugel vom Halbmesser r angenommen wird. Um noch den Kubikinhalt des Erdsphäroids zu finden, multiplizire man den für ab erhaltenen Werth mit $^1/_3$ a, so folgt

$$\frac{4}{3} a^2 b = 50510548593372780800$$

das Produkt dieser Zahl in die Zahl $\pi$ steht (§. 14 Beisp. II.), man hat also $K = 158683568389730192 68.3$ Wiener Kubikklafter, und die Kubikwurzel aus der Zahl $a^2 b = 3788291145779585600$ gibt nach (§. 13 Beisp. II.) den Halbmesser $r' = 3358518.794$ e iner Kugel vom gleichen Inhalte mit dem Erdballe; es ist also $r' > r$.

## §. 16.

Zur Bestimmung der Oberfläche O des Erdsphäroids hat man

$a^2 = 21304926798400$, und nach (§. 10 Beisp. III)

$b^2 = 11229261318081$ demnach ist

$a^2 - b^2 = 75665480319$, und nach (§. 12 Beisp. III.)

$\sqrt{(a^2 - b^2)} = 275073.5908 = c$, nun ist

$a = 3362280$

$a + c = 3637353.5908$, $b = 3351009$, daher

$m = 1.0854502601$, hievon ist in 10 Dezimalstellen

log. m = 0.0356099266, multiplizirt man diese Zahl mit 2.30258509299 so erhält man $\lambda m = 0.08199488615$; weiters ist

| | |
|---|---|
| log. $\lambda m$ = 0.9137867672—2 | $2a\pi$ = 21125828.294623780 |
| log. c = 5.4394488915 | $a + b^2 n$ = 6709537.036 |
| log. n = 0.4743378757—7 | 126754 969 |
| log. $b^2$ = 13.0503511884 | 633774 849 |
| log. $b^2 n$ = 6.5246890641 | 147880798 062 |
| $b^2 n$ = 3347257.0360 | 633774848 839 |
| a = 3362280 | 10562914147 311 |
| $a + b^2 n$ = 6709537.0360 | 190132454651 613 |
| | 147880798062 36 646 |
| | 126754969767742 680 |
| | O = 141744527358954.969 |

Ferner ist nach (§. 14., Beisp. I.)

die gesuchte Oberfläche ist demnach 141744527358955 W. Q. K.

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Der Halbmeſſer einer Kugel von gleicher Oberfläche mit der Erde ergibt ſich hieraus $r''=3358522.1595$ mithin iſt auch $r''>r'>r$.

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## IV. Anwendung auf die unbeſtimmte Analytik.

### §. 17.

Wenn N eine gegebene ungerade Zahl vorſtellt, und a, b beliebige ganze Zahlen bedeuten, ſo heißt die Gleichung $N=ax^2+by^2$ für ganze Werthe von x und y die quadratiſche Form der Zahl N: ſo viele Auflöſungen dieſe Gleichung in ganzen Zahlen für x und y geſtattet, eben ſo viele quadratiſche Formen beſitzt die Zahl. Für den Fall $a=1$, $b=-1$, wird $N=x^2-y^2$ der Unterſchied zweier Quadrate, und es gelten hier folgende Sätze, deren Beweis dem eigenen Scharfſinn des Leſers überlaſſen bleibt.

1. Iſt N eine Zahl von der Form $4n+1$, ſo iſt x ungerad, y gerade, und für eine Zahl von der Form $4n+3$ iſt umgekehrt x eine gerade, y eine ungerade Zahl.

2. Jede Primzahl und auch jede Potenz derſelben iſt blos einmal der Unterſchied zweier Quadratzahlen und man hat $x=\frac{1}{2}(N+1)$, $y=\frac{1}{2}(N-1)$.

3. Hat aber N die einfachen ungleichen Faktoren a, b, ſo kommen dieſer Zahl zwei quadratiſche Formen zu, nämlich

$$x=\tfrac{1}{2}(ab+1),\ x=\tfrac{1}{2}(a+b) \text{ und } y=\tfrac{1}{2}(ab-1),\ y=\tfrac{1}{2}(a-b).$$

4. Bei drei einfachen ungleichen Faktoren a, b, c, einer Zahl N ergeben ſich vier quadratiſche Formen derſelben, und es ſind die Werthe von

$$x=\tfrac{1}{2}(abc+1),\ \tfrac{1}{2}(ab+c),\ \tfrac{1}{2}(ac+b),\ \tfrac{1}{2}(bc+a)$$
$$y=\tfrac{1}{2}(abc-1),\ \tfrac{1}{2}(ab-c),\ \tfrac{1}{2}(ac-b),\ \tfrac{1}{2}(bc-a)$$

5. Bei vier Faktoren a, b, c, d einer Zahl N findet man

$$x=\tfrac{1}{2}(abcd+1),\ \tfrac{1}{2}(abc+d),\ \tfrac{1}{2}(abd+c),\ \tfrac{1}{2}(acd+b),\ \tfrac{1}{2}(bcd+a),$$
$$y=\tfrac{1}{2}(abcd-1),\ \tfrac{1}{2}(abc-d),\ \tfrac{1}{2}(abd-c),\ \tfrac{1}{2}(acd-b),\ \tfrac{1}{2}(bcd-a)$$
$$x=\tfrac{1}{2}(ab+cd),\ \tfrac{1}{2}(ac+bd),\ \tfrac{1}{2}(ad+bc)$$
$$y=\tfrac{1}{2}(ab-cd),\ \tfrac{1}{2}(ac-bd),\ \tfrac{1}{2}(ad-bc)$$

und ſo verdoppelt ſich mit jedem neu hinzutretenden Faktor die Zahl der quadratiſchen Formen einer Zahl N.

Sei z. B. $N=357=3.7.17$, ſo iſt $a=3$, $b=7$, $c=17$, und man erhält nach Subſtitution dieſer Werthe

$$357=179^2-178^2=19^2-2^2=29^2-22^2=61^2-58^2.$$

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Eine unmittelbare Folge dieſer Sätze iſt, daß wenn eine Zahl nur einmal als Unterſchied zweier Quadratzahlen ſich ergibt, dieſe Zahl entweder eine Primzahl, oder eine Potenz derſelben ſein müſſe.

## §. 18.

Iſt aber in der Gleichung $N=ax^2+by^2$, $a=b=1$; ſo gelten folgende Sätze:

1. Jede Primzahl von der Form $4n+1$, und auch ihr Quadrat iſt nur einmal die Summe zweier Quadratzahlen. Iſt nämlich $N=p^2+q^2$, demnach $x=p$, $y=q$, ſo ſind im Quadrate von N, $x=p^2-q^2$, $y=2pq$.

2. Der Kubus einer Primzahl von der Form $4n+1$ beſitzt zwei quadratiſche Formen nämlich

$$x=p^3-3pq^2,\ y=3p^2q-q^3,\ \text{und}\ x=p^3+pq^3,\ y=p^2q+q^3$$

3. Keine Primzahl von der Form $4n+3$, und auch keine zuſammengeſetzte Zahl, unter deren Faktoren Zahlen von der Form $4n+3$ erſcheinen, iſt eine Summe zweier Quadratzahlen.

4. Enthält eine zuſammengeſetzte Zahl die zwei einfachen, ungleichen Faktoren a, b, für welche die Gleichungen

$$a^2=p^2+q^2,\ b^2=r^2+s^2$$

gelten; ſo ſind in der Gleichung $N=x^2+y^2$ die Werthe von

$$x=pr-qs,\ y=ps+qr,\ \text{und}\ x=pr+qs,\ y=ps-qr.$$

5. Jede aus drei einfachen ungleichen Faktoren a, b, c zuſammengeſetzte Zahl N, wenn nämlich

$$a^2=p^2+q^2,\ b^2=r^2+s^2,\ c^2=t^2+u^2\ \text{iſt},$$

und man Kürze halber

$$pr+qs=\alpha,\ pr-qs=\beta,\ ps+qr=\gamma,\ ps-qr=\delta\ \text{ſetzt}$$

liefert für x und y vier verſchiedene Werthe

$$x=\beta t\mp\gamma u,\ \alpha t\mp\delta u$$
$$y=\beta u\pm\gamma t,\ \alpha u\pm\delta t$$

wo die oberen Zeichen in den Werthen von x mit den oberen von y zuſammengehören, welche der Gleichung $N=x^2+y^2$ Genüge leiſten.

6. Bei vier einfachen Faktoren a, b, c, d einer Zahl N, wenn nebſtdem $d^2=v^2+w^2$ iſt und man Kürze halber

$$\beta t+\gamma u=\alpha',\ \beta t-\gamma u=\beta',\ \alpha t+\delta u=\gamma',\ \alpha t-\delta u=\delta'$$
$$\beta u+\gamma t=\alpha'',\ \beta u-\gamma t=\beta'',\ \alpha u+\delta t=\gamma'',\ \alpha u-\delta t=\delta''$$

ſetzt, gibt es für x und y acht verſchiedene Werthe

$$x=\beta' v\mp\alpha'' w,\ \alpha' v\mp\beta'' w,\ \delta' v\mp\gamma'' w,\ \gamma' v\mp\delta'' w$$
$$y=\beta' w\pm\alpha'' v,\ \alpha' w\pm\beta'' v,\ \delta' w\pm\gamma'' v,\ \gamma' w\pm\delta'' v$$

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7. Mit jedem neu hinzutretenden Faktor einer Zahl, verdoppelt sich die Anzahl ihrer quadratischen Formen, und diese steigt bei m ungleichen Faktoren einer Zahl auf $2^{m-1}$.

So oft also eine Zahl N von der Form $4n+1$ nur einmal in die Summe zweier Quadratzahlen zerfällt, so ist sie entweder eine Primzahl oder aber das Quadrat einer Primzahl.

## §. 19.

Verwandelt man die Quadratwurzel aus einer Zahl in einen Kettenbruch, so erhält man eine Anzahl Glieder, welche periodisch in derselben Ordnung wiederkehren, und sich in solchen Perioden ohne Ende wiederhohlen. Die eine Periode bildenden Glieder nehmen aber erst beim zweiten Gliede des Kettenbruches ihren Anfang, wenn man die größte in der Quadratwurzel enthaltene ganze Zahl a als dessen erstes Glied betrachtet, das Endglied einer Periode ist immer 2a und die übrigen Glieder sind symmetrisch geordnet, also die von ihrer Mitte gleich weit entfernten Glieder sind einander gleich; befinden sich daher in einer Periode zwei gleiche Mittelglieder, so ist die Anzahl der Glieder ungerade, im Gegenfalle gerade.

Bekanntlich wird die Quadratwurzel einer Zahl N in einen Kettenbruch verwandelt, wenn man erstlich die größte ganze Zahl a aufsucht, deren Quadrat kleiner ist als N; so ist a das erste Glied des zugehörigen Kettenbruches: sodann setze man für die bestimmten Werthe $A=1$, $\alpha=0$, $Aa-\alpha=\beta$ und $N-a^2=B$; so ist das zweite Glied des Kettenbruches b, die größte im Bruche $\beta+a:B=2a:B$ enthaltene ganze Zahl: macht man ferner $Bb-\beta=\gamma$, und $A+b(\beta-\gamma)=C$; so ist das dritte Glied c die größte in $(\gamma+a):C$ enthaltene ganze Zahl, setzt man diese Rechnung fort, und macht

$$Cc-\gamma=\delta,\ B+c(\gamma-\delta)=D,\ d=(\delta+a):D$$
$$Dd-\delta=\varepsilon,\ C+d(\delta-\varepsilon)=E,\ e=(\varepsilon+a):E \text{ u. s. w.}$$

so ergeben sich die folgenden Glieder des Kettenbruches d, e, f, ... Die so zum Vorschein kommenden Brüche

$$\frac{\beta}{B}, \frac{\gamma}{C}, \frac{\delta}{D}, \frac{\varepsilon}{E}$$

nennt man Ergänzungen des Kettenbruches.

Man kann diese Entwickelung eines Kettenbruches in folgendes Schema bringen



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Glieder des Kettenbruches $a, b, c, d, e \ldots$

Ergänzungen desselben $\frac{\alpha}{A}, \frac{\beta}{B}, \frac{\gamma}{C}, \frac{\delta}{D}, \frac{\varepsilon}{E}$

und es werden diese Größen nach folgender Regel gebildet:

I. Der Zähler einer Ergänzung ist der Unterschied zwischen dem Produkte aus dem Nenner der vorhergehenden Ergänzung in das darüber stehende Glied des Kettenbruches und dem zugehörigen Zähler.

II. Der Nenner einer Ergänzung ist gleich dem Unterschiede der Zähler zweier auf einander folgenden Ergänzungen, multiplizirt in das darüber stehende Glied des Kettenbruches mehr dem Nenner der diesen vorangehenden Ergänzung.

III. Jedes Glied des Kettenbruches ist die größte ganze Zahl, welche in dem um die Größe a vergrößerten Zähler der Ergänzung getheilt durch den zugehörigen Nenner enthalten ist.

Gelangt man bei dieser Rechnung entweder auf zwei gleiche Zähler oder Nenner der unmittelbar auf einander folgenden Ergänzungen, so erreicht sie schon ihr Ende, weil dann die bereits gefundenen Glieder des Kettenbruches in verkehrter Ordnung auf einander folgen.

Z. B. Sei I. $N=1311$, so ist $a=36$, $B=15$, und die Rechnung steht so:

| 36 | 4 | 1 | 4 | 2 | 1 | 2, |
|---|---|---|---|---|---|---|
| 0 | 36 | 24 | 25 | 31 | 19 | 19 |
| 1 | 15 | 9 | 14 | 25 | 38 | 25 |

und $\sqrt{1311}=36, 4, 1, 4, 2, 1, (2), 1, 2, 4, 1, 4, 72.$

Sei II. $N=3089$, so ist $a=55$, $B=64$, und man erhält

| 55 | 1 | 1 | 2 | 1 | 2 | 15 | 1 | 1 | 21 | 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 55 | 9 | 38 | 32 | 27 | 53 | 52 | 3 | 53 | 52 | 25 |
| 1 | 64 | 47 | 35 | 59 | 40 | 7 | 55 | 56 | 5 | 77 | 32 |

| 1 | 1 | 13 | 3 | 9 | 1 | 1 | 1 | 1 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|
| 39 | 10 | 51 | 53 | 52 | 47 | 33 | 42 | 11 | 45 | 50 |
| 49 | 61 | 8 | 35 | 11 | 80 | 25 | 53 | 56 | 19 | 31 |

| 2 | 2 | 6 | 1 | 1 |
|---|---|---|---|---|
| 43 | 37 | 49 | 47 | 8 |
| 40 | 43 | 19 | 55 | 55, |

daher hat man

$\sqrt{3089}=55, 1, 1, 2, 1, 2, 15, 1\ 1, 21, 1, 2, 1, 1, 13, 3, 9, 1, 1, 1, 1, 5, 3, 2, 2, 6, (1, 1), 6, 2, 2, 3, 5, 1, 1, 1, 1, 9, 3, 13, 1, 1, 2, 1, 21, 1, 1, 15, 2, 1, 2, 1, 1, 110.$

Die Richtigkeit der Rechnung kann an einer beliebigen Stelle dadurch geprüft werden, daß das Produkt der Nenner in zwei auf einander folgenden Ergänzungen nebst dem Quadrate des Zählers in der letzteren derselben die Zahl N zur Summe liefert. Z. B. $77\times32+25^2=3089$.

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§. 20.

Um nun eine gegebene Zahl N von der Form $4n+1$ als Summe zweier Quadratzahlen darzustellen, so verwandle man die Quadratwurzel aus dieser Zahl in einen Kettenbruch, und setze die Rechnung so weit fort, bis zwei auf einander folgende Ergänzungen mit gleichen Nennern zum Vorschein kommen, welches immer in der Mitte der Periode geschieht, wofern die gegebene Zahl keine Faktoren von der Form $4n+3$ besitzt, dann sind Zähler und Nenner der zweiten dieser beiden Ergänzungen die Werthe von x und y in der Gleichung $N=x^2+y^2$. Z. B. $3089=55^2+8^2$.

Wie überhaupt indirekte Methoden schneller zum Ziele führen, als die direkten, so findet man für eine Reihe auf einander folgenden Zahlen von der Form $4n+1$, ihre quadratischen Formen durch stuffenweise Addition der Quadrate gerader Zahlen zu jener der ungeraden Zahlen, indem man unter diesen Summen bloß jene Ergebnisse beibehält, welche zugleich Primzahlen sind. Auf diese Art ist die zweite Hülfstafel S. 404 und S. 405 entstanden, welche alle Primzahlen dieser Art und auch die Quadrate derselben bis zur Zahl 10529 als Summe zweier Quadratzahlen darstellt. Es erscheint zwar unter den Tafeln der trefflichen Abhandlung Jacobi's über die Kreistheilung im Crelle's Journal für die reine und angewandte Mathematik, Band XXX, S. 174 eine mit dieser ähnliche Tafel, welche bis zur Zahl 11981 reicht: allein eine Vergleichung jener mit der meinigen ergab, daß dort die Primzahlen 197, 901, 2713, 4913 und 6997 abgehen, welches zum Beweise dienen mag, daß beide abgesondert berechnet wurden.

§. 21.

Nach dem bisher Vorgetragenen läßt sich eine gegebene ungerade Zahl N, deren Faktoren bekannt sind, sofort als Summe oder Unterschied zweier Quadratzahlen darstellen. Zu diesem Ende suche man die Werthe von x und y für jeden Faktor der Zahl in der Tafel 2. auf, und leite aus ihnen die zugehörigen Werthe von x, und y der Zahl N nach §. 18 ab, so erhält man sofort die verschiedenen quadratischen Formen der Zahl als Summe zweier Quadratzahlen: hingegen für den Unterschied der Quadratzahlen, substituire man die Werthe der Faktoren in den Formeln §. 17. Z. B. Sei $N=61367333=6737.9109$, so gibt die Tafel 2. $p=31$, $q=76$, $r=55$, $s=78$, und man erhält



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| | | | |
|---|---|---|---|
| pr=1705, | ps=2418 | $4223^2$=17833729 | $7633^2$=58262689 |
| qs=5298 | qr=4180 | $6598^2$=58262689, | $1762^2$= 3104644 |
| $\beta$=4223 | $\gamma$=6598 | Summe=61367333 | 61367333 |
| $\alpha$=7633 | $\delta$=1762 | | |

hingegen hat man für den Unterſchied der Quadratzahlen

| | | | |
|---|---|---|---|
| a= 9109 | ab=61367333 | $7923^2$=62773929 | |
| b= 6737 | ab+1=61367334 | $1186^2$= 1406506 | |
| a+b=15846 | ab—1=61367332 | Unterſch.=61367333 | |
| a—b= 2372 | | | |

$^1/_2$(a+b)=7923 $^1/_2$(ab+1)=30683667
$^1/_2$(a—b)=1186 $^1/_2$(ab—1)=30683666

Sei ferner N=68692781=73.89.97.109, ſo hat man aus der Tafel 2.

p=8, q=3, r=8, s=5, t=9, u=4, v=10, w=3

man findet erſtlich

| | |
|---|---|
| pr=64, | ps=40 |
| qr=15 | qr=24 |
| $\alpha$=79 | $\gamma$=64 |
| $\beta$=49 | $\delta$=16 |

hiemit ergibt ſich

| | | | |
|---|---|---|---|
| $\beta$t=441 | $\beta$u=196 | $\alpha$t=711 | $\alpha$u=316 |
| $\gamma$u=256 | $\gamma$t=576 | $\delta$u= 64 | $\delta$t=144 |
| $\alpha'$=697 | $\alpha''$=772 | $\gamma'$=775 | $\gamma''$=460 |
| $\beta'$=185 | $\beta''$=380 | $\delta'$=647 | $\delta''$=172 |

weiters hat man

| | | | |
|---|---|---|---|
| $\beta'$v=1850 | $\beta'$w= 555 | $\alpha'$v=6970 | $\alpha'$w=2091 |
| $\alpha''$w=2316 | $\alpha''$v=7720 | $\beta''$w=1140 | $\beta''$v=3800 |
| x= 466 | y=8275 | x=5830 | y=5891 |
| x=4166 | y=7165 | x=8110 | y=1709 |
| $\delta'$v=6470 | $\delta'$w=1941 | $\gamma'$v=7750 | $\gamma'$w=2325 |
| $\gamma''$w=1380 | $\gamma''$v=4600 | $\delta''$w= 516 | $\delta''$v=1720 |
| x=5090 | y=6541 | x=7234 | y=4045 |
| x=7850 | y=2659 | x=8266 | y= 605 |

somit iſt 68692781=$466^2$+$8275^2$=$4166^2$+$7165^2$=$8110^2$+$1709^2$
=$5830^2$+$5891^2$=$5090^2$+$6541^2$=$7850^2$+$2659^2$=$7234^2$+$4045^2$=$8266^2$+$605^2$.

Dagegen erhält man für den Unterſchied zweier Quadratzahlen

a=73, b=89, c=97, d=107

| | | | | |
|---|---|---|---|---|
| | ab= 6497 | ac=7081 | ad= 7957 | abc=630209 |
| | cd=10573 | bd=9701 | bc= 8633 | d= 109 |
| Summe | =17070 | 16782 | 16590 | 630318 |
| Unterſch. | = 4076 | 2620 | 676 | 630100 |

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| | | | |
|---|---|---|---|
| abd=708173 | acd=771829 | bcd=940997 |
| c= 97 | b= 73 | a= 73 |
| Summe =708270 | 771902 | 941070 |
| Unterſch. =708076 | 771756 | 940924 |

nimmt man von den ſo beſtimmten Zahlen die Hälfte, ſo ergeben ſich die zuſammengehörenden Werthe von x und y; daher iſt

$68692781 = 8535^2 - 2038^2 = 8391^2 - 1310^2 = 8295^2 - 338^2 = 315159^2 - 315050^2$
$= 354135^2 - 354038^2 = 385951^2 - 385878^2 = 470535^2 - 470462^2$
$= 34346391^2 - 34346390^2.$

## §. 22.

Wenn N eine gegebene ungerade Zahl vorſtellt und a, b ganze Zahlen bedeuten, ſo heißt die Gleichung, $N = ax^3 + bx^3$, welche man durch ganze Werthe von x und y erfüllen kann, die kubiſche Form der Zahl N. Für den Fall daß $a = b = 1$, verwandelt ſich die Gleichung in $N = x^3 + y^3 = (x+y)(x^2 - xy + y^2)$, und dieſer Ausdruck zeigt, daß keine Primzahl in der Form $N = x^3 + y^3$ enthalten ſein kann. Sind alſo a, b die einfachen ungleichen Faktoren der Zahl N, und man ſetzt $x + y = a$, $x^2 - xy + y^2 = b$, ſo gibt die Elimination von y, den Werth $x = {}^1/_2 a \pm {}^1/_2 \sqrt{{}^1/_3(4b - a^2)}$: woraus zu erſehen iſt, daß blos jene Zahlen mit zwei Faktoren als Summe zweier Kubikzahlen erſcheinen können, bei welchen ${}^1/_3(4b - a^2)$ eine Quadratzahl bedeutet: dieſe Bedingung wird ſchon erfüllt, wenn $4b = 3m^2 + a^2$ wird, und man erhält $x = {}^1/_2(a + m)$, $y = {}^1/_2(a - m)$. Wird a kleiner als m, ſo folgt der Werth von y negativ, und die kubiſche Form der Zahl N wird $x^3 - y^3$. Setzt man aber $a = 1$, $b = N$, oder iſt N eine Primzahl, dann wird jene Bedingung erfüllt, wenn $4N = 3m^2 + 1$, und man erhält

$$x = {}^1/_2(1 + m),\ y = {}^1/_2(1 - m),$$

welche Werthe die Gleichung $N = x^3 - y^3$ richtig machen.

Die dritte und vierte Tafel liefert jene ungeraden Zahlen, welche ſich auf eine kubiſche Form $N = x^3 \pm y^3$ bringen laſſen, nebſt den ihnen zugehörigen Werthen von x und y.

## §. 23.

Um alſo eine Zahl mit den gegebenen Faktoren a, b als Summe oder als Differenz zweier Kubikzahlen darzuſtellen, hat man vorerſt zu unterſuchen, ob ${}^1/_3(4b - a^2)$ oder auch ${}^1/_3(4N - 1)$ eine Quadratzahl bedeutet: iſt dies nicht der Fall, ſo kann auch die Zahl unter einer kubiſchen

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Form $x^3 \pm y^3$ nicht erſcheinen. Iſt aber $\frac{1}{3}(4b - a^2) = m^2$, ſo erhält man $x = \frac{1}{2}(a \pm m)$. Hat endlich die Zahl N mehrere einfache Faktoren a, b, c ſo hängt die Möglichkeit einer kubiſchen Form derſelben von dem Umſtande ab, daß eine oder mehrere der Größen $\frac{1}{3}(4abc - 1)$, $\frac{1}{3}(4bc - a^2)$, $\frac{1}{3}(4ac - b^2)$, $\frac{1}{3}(4c - a^2b^2)$ Quadratzahlen werden.

Beiſpiele. Sei I. $N = 14231807 = 281.50647$, ſo hat man $a = 281$, $b = 50647$, demnach $4b = 202588$

$$a^2 = \quad 78961$$

$$4b - a^2 = 123627$$

$$\tfrac{1}{3}(4b - a^2) = 41209 = (203)^2$$

$$x = \tfrac{1}{2}(281 + 203) = \tfrac{1}{2} \cdot 484 = 242$$

$$y = \tfrac{1}{3}(281 - 203) = \tfrac{1}{2} \cdot \quad 78 = \quad 39$$

In der That iſt $242^3 = 14172488$

$$39^3 = \quad 59319$$

$$N = 14231807$$

Sei II. $N = 699959 = 23.30433$, ſo iſt $a = 23$, $b = 30433$, alſo

$4b = 121732$ $\quad \frac{1}{3}(4b - a^2) = 40401 = (201)^2$

$a^2 = \quad 529$ $\quad x = \frac{1}{2}(23 + 201) = 112$

$4b - a^2 = 121203$ $\quad y = \frac{1}{2}(23 - 201) = -89$ mithin $N = 112^3 - 89^3$.

Sei III. $N = 3367 = 7.13.37$, ſo iſt $a = 7$, $b = 13$, $c = 37$, $\frac{1}{3}(4N - 1) = 67^2$, $bc = 481$, $\frac{1}{3}(4bc - a^2) = 25^2$, $\frac{1}{3}(4ac - b^2) = 17^2$, daher iſt $3367 = 34^3 - 33^3 = 16^3 - 9^3 = 15^3 - 2^3$.

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## V. Anwendung der Quadratzahlen auf die Zerfällung groſzer Zahlen in ihre Faktoren.

### §. 24.

Unter den 10000 Zahlen, welche mit 4 Ziffern geſchrieben werden können, gibt es nur 1044 vierziffriger Zahlen, die als Endziffern irgend einer Quadratzahl angehören: wir wollen ſie quadratiſche Endungen nennen, und in folgenden acht Gruppen zuſammenſtellen:

Die erſte Gruppe enthält Zahlen, deren zwei Anfangsziffern eine der 22 Zahlen

00, 01, 04, 09, 16, 21, 24, 25, 29, 36, 41
44, 49, 56, 61, 64, 69, 76, 81, 84, 89, 96

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und deren Endziffern 00 sind. Z. B. 0100, 2500, 4100 sind quadratische Endungen.

die zweite Gruppe enthält unter ihren Anfangsziffern die 22 Zahlen

00, 02, 06, 10, 12, 20, 22, 30, 32, 40, 42
50, 52, 56, 60, 62, 70, 72, 80, 82, 90, 92

mit den Endziffern 25,

die dritte Gruppe begreift die 50 zweiziffrigen Zahlen von der Form $4n$ und $4n+1$ mit den Endziffern 16, 64, 96

die vierte Gruppe hingegen die 50 zweiziffrigen Zahlen von der Form $4n+1$ und $4n+2$ mit den Endziffern 44, 76

die fünfte Gruppe die 50 zweiziffrigen Zahlen von der Form $4n+2$ und $4n+3$ mit den Endziffern 24 und 56, ferner

die sechste Gruppe die 50 zweiziffrigen Zahlen von der Form $4n+3$ und $4n$ mit den Endziffern 04, 36, 84, endlich

die siebente Gruppe besteht aus den 50 zweiziffrigen geraden Zahlen mit den Endziffern 01, 09, 41, 49, 81, 89, und

die achte Gruppe aus den 50 zweiziffrigen ungeraden Zahlen, deren Endziffern die Zahlen 21, 29, 61, 69 sind.

Alle diese quadratischen Endungen findet man in ihrer natürlichen Aufeinanderfolge in der 10. Tafel geordnet.

## §. 25.

Es ist zum Behufe der Lösung der vorbenannten Aufgabe von Wichtigkeit, diejenigen Zahlen zu kennen, deren Quadrate eine und dieselbe Endung besitzen. Hiefür gibt es nun folgende leicht erweisliche Gesetze:

1. Der quadratischen Endung 0000 entsprechen die Zahlen 100, 200, 300 u. s. f. die nach der Differenz 100 aufsteigen.

2. Allen übrigen quadratischen Endungen der ersten Gruppe 0100, 0400, 0900 u. s. f. gehören Zahlen an, die nach der Differenz 500 aufsteigen z. B. die quadratische Endung 0100 haben die Zahlen 10, 490, 510, 990, 1010, 1490, 1510 u. s. f. sie zerfallen in zwei Reihen, deren Differenz 500 ist, und deren Anfangsglieder 10 und 490 sich zu 500 ergänzen, denn es ist $490=500-10$.

3. Die quadratischen Endungen 0625 und 5625 der 2. Gruppe begreifen Zahlen, die in zwei Reihen nach der Differenz 200 aufsteigen, ihre Anfangsglieder ergänzen sich zu 200. Z. B. die quadratische Endung 0625 besitzen die Zahlen 25, 175, 225, 375, 425, 575 u. s. f.

Allen übrigen quadratischen Endungen dieser Gruppe gehören Zahlen

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an die in 4 Reihen nach der Differenz 1000 fortschreiten: heißt das Anfangsglied der ersten Reihe a, so ist jenes der zweiten Reihe a+d, und die der dritten und vierten Reihe ergänzen jene zu 1000, sie sind also 1000—a, 1000—(a+d) z. B. die Zahlen, welche die quadratische Endung 0225 besitzen, sind 15, 265, 735, 985, 1015, 1265, 1735, 1985, 2015 u. s. f. und hier ist a=15, d=250, also a+d=265, 1000—(a+d)=735, 1000—a=985.

5. Alle geraden quadratischen Endungen, deren zwei Endziffern von 00 verschieden sind, besitzen zwei Reihen von Zahlen, deren Differenz 2500 ist, und deren Anfangsglieder sich zu 2500 ergänzen. Z. B. die Zahlen, welche die quadratische Endung 1204 haben, sind 302, 2198, 2802, 4698, 5302, u, s. f. und hier ist 2198=2500—302. Endlich

6. Allen ungeraden quadratischen Endungen, deren zwei Endziffern von 25 verschieden sind, gehören vier Reihen von Zahlen an, die nach der Differenz 5000 aufsteigen, wobei die Anfangsglieder der beiden ersten Reihen jene der beiden anderen zu 5000 ergänzen. Z. B. Die Zahlen, welche die quadratische Endung 1209 besitzen, sind 203, 1453, 3547, 4797, 5203, 6453, 8547, 9797, 10203 u. s. f. und hier ist 3547=5000—1453, 4797=5000—203 von diesen vier Anfangsgliedern aus, schreiten alle übrigen Zahlen nach der Differenz 5000 fort.

Die 10. Hülfstafel enthält die einzelnen quadratischen Endungen zugehörigen ersten zwei Anfangsglieder jener arithmetischen Reihen, welche daher in einem vorkommenden Falle ohne Anstand gebildet und so weit fortgesetzt werden können, als man will.

## §. 26.

Wenn eine vierziffrige quadratische Endung mit den 4 Endziffern einer gegebenen Zahl N durch Addition oder durch Subtraktion verbunden, wieder eine vierziffrige quadratische Endung liefert, so heißt jene eine kongruente Endung der Zahl N, und zwar eine additiv oder eine subtraktiv kongruente Endung, je nachdem die quadratische Endung zu den 4 Endziffern der Zahl N addirt, oder aber von denselben abgezogen wird. Z. B. Für die Zahl N=8514341 sind die quadratischen Endungen 0100, 0900, 2100, 2500 u. s. f. ferner 0884, 1284, 1684, 2884 u. s. f. additiv kongruent, weil diese Zahlen zu den 4 Endziffern der Zahl N addirt wieder quadratische Endungen geben: es ist nämlich 4341+0100=4441, 4341+0884=5225 u. s. f. Dagegen sind die quadratischen Endungen 0100, 0225, 0241, 0116 u. s. f. subtrak-

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tiv kongruente Endungen dieſer Zahl, weil 4321 — 0100 = 4241, 4321—0225=4116, 4341—0241=4100, 4341—0116=4225 wieder quadratiſche Endungen ſind.

## §. 27.

Man begreift leicht, daß die Anzahl quadratiſcher Endungen, welche mit den 4 Endziffern einer Zahl kongruent ſind, von der Form dieſer Endziffern abhängt. Endiget eine Zahl N mit den Ziffern 3 oder 7, ſo iſt die Anzahl ihrer additiv kongruenten Endungen gleich 125: ſie bilden arithmetiſche Reihen, deren konſtante Differenz 80 iſt, und deren Anfangsglieder die 5. Hülfstafel liefert. Um dieſe aufzufinden geht man mit den 2 Endziffern der Zahl die a heißen ſollen, in die erſte Spalte der Tafel und mit den 2 folgenden höheren Ziffern b der Zahl in die damit bezeichneten zwei Spalten, je nachdem die Form von b gleich 2n, 2n+1, oder 4n, 4n+1, 4n+2, 4n+3 iſt, und ſchreibt die daneben ſtehende Endung heraus. Z. B. die Zahl deren 4 Endziffern 8947 ſind, beſitzt die additiv kongruenten Endungen

0049, 0129, 0209, 0289, 0369, 0449, 0529 u. ſ. f.

Endiget aber eine Zahl auf 1 oder 9, ſo liefert die Hülfstafel 6. eine Gruppe von 11 additiv kongruenten Endungen, und die Tafel 7 die andere Gruppe derlei Endungen, die man ſo findet: Mit den zwei Endziffern a der Zahl N gehe man in die erſte Spalte der Tafel 6, und nach der Form der zwei höheren Stellen b dieſer Zahl in der zweiten Spalte, ſchreibe man aus der letzten Spalte der Tafel die verlangten 11 kongruenten Endungen heraus. Z. B. für die Endung 6249 einer Zahl N findet man ſo die erſte Gruppe von 11 kongruenten Endungen

0000, 0400, 1600, 2400, 3600, 4400, 5600, 6400, 7600, 8400, 9600

Die 7. Tafel, welche die zweite Gruppe additiv kongruenter Endungen für auf 1 oder 9 endigende Zahlen liefert, zerfällt in 8 Abtheilungen, die mit den römiſchen Ziffern I, II, III bis VIII unterſchieden ſind. Hiebei bedeutet a wie vorhin die zwei Endziffern der Zahl N, b ihre zwei höheren Stellen, ferner p die 2 Endziffern der geſuchten kongruenten Endungen, welche allen Zahlen in derſelben Abtheilung gemeinſchaftlich angehören. Man ſuche zuvörderſt diejenige Abtheilung der Tafel auf, wo der gegebene Werth von a als Aufſchrift erſcheint, und bemerke den zugehörigen Werth von p: hierauf gehe man mit dem Werthe von b in der damit bezeichneten Spalte ſo weit herab, bis man auf die darunter begriffene Zahl kommt, in derſelben horizontalen Zeile ſtehen ſofort die 2 hö-

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heren Stellen der 11 kongruenten Endungen. Auf dieſe Weiſe ergibt ſich für die Endung 6249 aus der Abtheilung VI. Da hier a=49, b=02, p=76 gefunden wird, die zweite Gruppe additiv kongruenter Endungen

0976, 1776, 2976, 3776, 4976, 5776, 6976, 7776, 8976, 9376, 9776.

Nur bei der Aufſuchung der kongruenten Endungen aus der IV. Abtheilung iſt vorläufig der gegebene Werth von b, falls er eine ungerade Zahl iſt, um 50 zu vergrößern, bevor man die Endungen ſelbſt beſtimmt. Z. B. für die Endung 5139, iſt a=39, b=51+50=01, p=61, und die zugehörigen kongruenten Endungen ſind

0961, 1761, 2961, 3761, 4961, 5761, 6961, 7361, 7761, 8961, 9761,

bei geraden Werthen von b hat jedoch dieſe Vergrößerung zu unterbleiben.

## §. 28.

Zur Beſtimmung ſubtraktiv kongruenter Endungen einer Zahl dient die 8. und 9. Tafel: die erſtere bezieht ſich auf die mit 3 oder 7, die andere auf die mit 1 oder 9 endigenden Zahlen von der Form 4n+1. Geht man mit den 2 Endziffern a der Zahl in die 8. Tafel, ſo trifft man daſelbſt, je nachdem b von der Form 4n, 4n+1, 4n+2 oder 4n+3 iſt, in der damit bezeichneten vertikalen Spalte zwei vierziffrige Zahlen an, welche als Anfangsglieder zweier arithmetiſchen Reihe zu betrachten ſind, deren konſtante Differenz 80 iſt, und die man, ſo weit als nöthig iſt, niederſchreiben kann: die Glieder dieſer zwei Reihen, deren Anzahl auf 250 ſteigt, ſind aber die geſuchten ſubtraktiv kongruenten Endungen der Zahl. Z. B. Für die Endung 3057 der Zahl N liefert die Tafel die Zahlen 0001, und 0016; es ſind ſonach die Zahlen

0001, 0081, 0161, 0241, 0321,... ferner 0016, 0096, 0176, 0256...

ſubtraktiv kongruente Endungen der Zahl N.

Die 9. Tafel, deren Einrichtung mit der ſchon §. 27 erklärten 6. Tafel übereinſtimmt, liefert zu jeder Zahl von der Form 4n+1 zwei Gruppen von 11 ſubtraktiv kongruenten Endungen. Z. B. für eine mit 4789 endigende Zahl, hat man a=89, b=47 oder von der Form 2n+1, ſonach iſt die erſte Gruppe

0100, 0900, 2100, 2500, 2900, 4100, 4900, 6100, 6900, 8100, 8900

und weil b auch in der Form 4n+3 enthalten iſt, ſo erhält man noch die zweite Gruppe

0225, 0625, 1025, 2225, 3025, 4225, 5025, 6225, 7025, 8225, 9025

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Die zwei anderen Gruppen derlei Endungen ergeben sich aber dadurch, daß man die eben erhaltenen von der gegebenen Endung abzieht, es ist nämlich 4789—0100=4689, 4789—0900=3889, 4789—2100=2689 u. s. f. und eben so ist 4789—0225=4564, 4789—0625=4164 u. s. f.

Wenn also eine Zahl mit 1 oder 9 endiget, so besitzt sie stets 44 subtraktiv kongruente Endungen.

## §. 29.

So oft also bei einer gegebenen ungeraden Zahl N durch ganze Werthe von x und y der Gleichung $N=x^2\pm y^2$ Genüge geschehen soll, wird man durch Aufsuchung der kongruenten Endungen der Zahl N, und zwar für das obere Zeichen der Gleichung, der subtraktiv kongruenten und für das untere Zeichen derselben, der additiv kongruenten Endungen, sofort alle jene Quadratzahlen ausschließen können, welche diese Gleichung nicht erfüllen, und es lassen sich mit Hülfe einer Tafel der Quadratzahlen, durch eine beziehungsweise kleine Anzahl Versuche, welche darin bestehen, daß man die höheren Stellen der Quadratzahlen zu den gleichnamigen Stellen der Zahl addirt, oder jene von diesen abzieht, die Werthe von x und y leicht bestimmen. Mit den so gefundenen Werthen der Zahlen x und y, welche der Gleichung $N=x^2\pm y^2$ Genüge leisten, sind aber auch die Faktoren der Zahl N selbst gegeben, sobald auch nur zwei quadratische Formen dieser Zahl ermittelt worden sind. Sind nämlich erstlich

$$N=A^2+B^2=C^2+D^2$$

die quadratischen Formen der Zahl und a, b ihre unbekannten Faktoren, so erhält man nach §. 18 n. 4

$$A=pr-qs,\ B=ps+qr,\ C=pr+qs,\ D=ps-qr$$

woraus sich sofort ergibt

$$A+C=2pr,\ C-A=2qs,\ B+D=2ps,\ B-D=2qr$$

beseitiget man also in den Werthen von A+C, B+D den gemeinschaftlichen Faktor 2p, so findet man r und s, und hiemit aus dem Werthe von C—A auch die Zahl q; hiedurch erhält man $a=p^2+q^2$, $b=r^2+s^2$.

Sind aber zweitens die quadratischen Formen der Zahl

$$N=A^2-B^2=C^2-D^2$$

und a, b ihre zu bestimmenden Faktoren, so erhält man nach §. 17 n. 3 $A=\frac{1}{2}(a+b)$, $B=\frac{1}{2}(a-b)$, somit $a=A+B$, $b=A-B$: und eben so bei drei Faktoren a, b, c einer Zahl N, ist $A=\frac{1}{2}(ab+c)$, $B=\frac{1}{2}(ab-c)$, $C=\frac{1}{2}(ac+b)$, $D=\frac{1}{2}(ac-b)$; woraus folgt $A+B=ab$, $C+D=ac$, $C-D=b$, also $(A+B):(C-D)=a$, und $(C+D):a=c$.

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**Beispiele.** Sei I. $N=100117=39^2+314^2=199^2+246^2$, so folgt $A=39$, $B=314$, $C=199$, $D=246$, mithin ist $A+C=238$, $C-A=160$, $B+D=560$, und 14 als gemeinschaftlicher Theiler von $A+C$, $B+D$ gleich $2p$, daher ist $p=7$, $q=2$, $r=17$, $s=40$, folglich $a=7^2+2^2=53$, $b=17^2+40^2=1889$, endlich $100117=53.1889$.

Sei II. $N=210781=1135^2-1038^2=2015^2-1962^2$, so hat man

$A=1135$, $B=1038$, $C=2015$, $D=1962$

$A+B=2173$, $A-B=97$, $C-D=53$, und $2173:53=41$; somit

$210781=41.53.97$.

## §. 30.

Alles kommt zunächst darauf an, die verschiedenen quadratischen Formen einer vorgelegten Zahl N auf einem sicheren und unter den bisher bekannten Methoden, dem kürzesten Wege zu bestimmen. Zuvörderst bemerke man, daß eine Zahl von der Form $4n+3$, oder auch eine Zahl zwar von der Form $4n+1$, sobald ihr Faktoren von der Form $4n+3$ zugehören, welcher Umstand sich in vorhinein unmöglich beurtheilen läßt, auf keine Weise als Summe zweier Quadrate dargestellt werden könne (§. 18); somit scheint es räthlicher die Rechnung mit der Aufsuchung der quadratischen Formen zu beginnen, welche die gegebene Zahl N als Unterschied zweier Quadratzahlen liefern. Zu diesem Ende bestimme man nach §. 27 die mit den 4 Endziffern dieser Zahl additiv kongruenten Endungen, suche aus der Tafel 10. die zu jeder derselben zugehörigen Zahlen, schlage sodann in der Tafel die Quadrate dieser Zahlen nach, und addire mit Hinweglassung ihrer Endziffern, die ohnehin den Endziffern der Zahl N kongruent sind, die Vorziffern dieser Quadrate zu den gleichnamigen Vorziffern der Zahl N: sobald die Summe dieser zwei Zahlen mit der kongruenten Endung der Zahl verbunden eine Quadratzahl liefert, so ist jene der Werth von $y^2$, diese der zugehörige Werth von $x^2$, welche die Gleichung $N=x^2-y^2$ richtig machen.

## §. 31.

Bevor wir dieses höchst einfache Verfahren, durch Beispiele erläutern, wollen wir noch ein paar Bemerkungen vorausschicken, welche eine Abkürzung der sonst überaus leichten Rechnung zum Zwecke haben. Erstlich ist es nicht nothwendig, alle quadratischen Formen dieser Art, deren die vorgelegte Zahl fähig ist, aufzusuchen, vielmehr genügt es schon in den meisten Fällen, wenn nur eine von der a priori bekannten

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$N=[^1/_2(N+1)]^2-[^1/_2(N-1)]^2$ verſchiedene Form aufgefunden wird, da dann die Faktoren $x+y$, $x-y$ der Zahl N gegeben ſind, und nur wenn die Zahl N eine Primzahl iſt, müßte man alle den kongruenten Endungen dieſer Zahl zugehörigen Zahlen unterſuchen. Zweitens. Die Wahrſcheinlichkeit, daß eine der verſchiedenen kongruenten Endungen, welche die Hülfstafeln 5, 6 und 7. für die Endziffern der Zahl liefern, den geſuchten Werth von y enthält, iſt wohl für alle gleich groß, ſo lange nicht noch neue Relationen zwiſchen der Zahl N und dem ihr korreſpondirenden Werthe von y entdeckt werden; aber die Prüfung der verſchiedenen quadratiſchen Endungen, wird (nach §. 25) bei ungeraden Endungen, deren zwei Endziffern von 25 unterſchieden ſind, da die ihnen in der Tafel 10. korreſpondirenden Zahlen nach einer größeren Differenz aufſteigen, bis zu einer in dem Folgenden zu beſtimmender Grenze, ſchneller abgethan, als bei geraden Endungen, und bei dieſen ſchneller als bei Endungen mit den Endziffern 00 oder 25. Iſt nun N eine Zahl von der Form $4n+3$, ſo muß (§. 17) y ungerad werden, und man wird die Rechnung mit der Prüfung der ſchon beſtimmten ungeraden quadratiſchen Endungen beginnen, und falls keine derſelben der Anforderung §. 30 entſpricht, zu den übrigen gehen. Iſt hingegen N eine Zahl von der Form $4n+1$, da dann y eine gerade Zahl wird, ſo mache man mit jenen geraden Endungen den Anfang, deren zwei Endziffern von 00 unterſchieden ſind. Drittens. Unter den kongruenten Endungen der Zahl erſcheinen immer auch Zahlen, welche an ſich bereits vollſtändige Quadratzahlen ſind: da nun ihre Prüfung ſchon durch ein einziges Aufſchlagen der Tafel entſchieden wird, ob nämlich die Vorziffern der Zahl N mit dieſen Quadratzahlen verbunden, wieder eine Quadratzahl geben, ſo verdienen ſolche quadratiſche Endungen vor allen anderen den Vorzug, weil oft der geſuchte Werth für y ſogleich ſich ergibt.

## § 32.

Die Grenze, bis zu welcher die muthmaßlichen Werthe von y der Prüfung zu unterziehen ſind, richtet ſich nach der Größe der Zahl N und nach der Anzahl ihrer Faktoren. Wenn dieſe Zahl eine Primzahl iſt, oder aber nur zwei Faktoren beſitzt, kann man die Unterſuchung bei $y=2\sqrt{N}$, oder auch bei $y=3\sqrt{N}$ einſtellen: ſetzt man nämlich dieſen Werth von y gleich $\beta$, ſo folgt aus der Gleichung $N=x^2-\beta^2$, im erſten Falle $x=^1/_2\beta\sqrt{5}=\alpha$, und es iſt dann nahe $N=\alpha^2-\beta^2=(\alpha+\beta)(\alpha-\beta)$, daher wird der kleinere Faktor der Zahl N den Werth $\alpha-\beta=\beta(0.1180)$ oder etwa $^1/_9\beta$ nicht überſteigen, im zweiten Falle aber erhält man

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$\alpha-\beta=\beta\times 0.054$ oder etwa $^1/_{19}\beta$; und man findet dieſen Faktor, indem man die Zahl N durch alle Primzahlen unter $\alpha-\beta$ wirklich dividirt. Dieſer Fall, wo die Faktoren von N ſehr ungleich ſind, iſt für unſere Methode der ungünſtigſte, allein auch bei anderen Methoden findet dieſer Uebelſtand gleichfalls Statt: Hofrath Gauß ſagt in ſeinem Werke Disquisitiones arithmeticae Seite 577, „Antequam methodi sequentes in usum vocentur, semper utilissimum est, divisionem numeri cujusque propositi per aliquot numeros primos minimos tentare, ne poeniteat, talem numerum, quando divisor est, per methodos subtiles ac artificiosas eruisse.“ Daß hiebei die in meinem Handbuche mathematiſcher Tafeln, Grätz 1824 von mir zuerſt bekannt gemachten Kennzeichen der Theilbarkeit durch die Zahlen 7, 13, 17, 19, 37, 41, 73, 101, 137, 239, 271 mit Vortheil angewendet werden können, braucht nicht erſt erinnert zu werden. In jedem anderen Falle, findet man den Werth von y deſto eher, je kleiner der Unterſchied der Faktoren einer Zahl iſt.

## §. 33.

Bei drei Faktoren $a>b>c$ einer Zahl N iſt für dieſe Methode der ungünſtigſte Fall, wenn nahe $a=b$, und ab viel größer iſt als c. Da nach §. 17 die Werthe von y bei drei Faktoren beziehungsweiſe $ab-\bullet$, $b-a$ und $ac-b$ ſind; ſo fallen ſie, wenn a nahe b iſt mit $a^2-c$ und $a(c-a)$ zuſammen, und beide ſind gewiß kleiner als $\alpha^2$, wenn $\sqrt[3]{N}=\alpha$ geſetzt wird: die Grenze, bis zu welcher bei drei Faktoren einer Zahl N die Rechnung zu führen iſt, wäre ſomit $\sqrt[3]{N^2}$: doch wird man in jedem anderen Falle weit früher zum Ziele kommen, namentlich wenn der eine Faktor vom Produkte der beiden anderen wenig verſchieden iſt, weil dann der Werth von y ſchon in den kleinſten Zahlen angetroffen wird, welche den kongruenten Endungen der Zahl N angehören. Hat eine Zahl 4 Faktoren ſo iſt die Grenze der Rechnung dieſelbe wie bei zwei Faktoren (§. 32), und nur bei einer größeren ungeraden Anzahl der Faktoren einer Zahl N, ſteigt dieſe Grenze über $\sqrt[3]{N^2}$, wofern man alle Werthe von y, welche den verſchiedenen quadratiſchen Formen der Zahl N zukommen, zu beſtimmen Willens iſt, welches (nach §. 31) zur Auflöſung der Aufgabe gerade nicht erfordert wird.

## §. 34.

### Beiſpiele.

1. Sei $N=1816201$, ſo erhält man die mit 6201 additiv kongruenten Endungen

0000, 0400*, 1600*, 2400, 3600*, 4400, 5600, 6400*, 7600, 8400 9600
1024*, 1824, 3024, 3824, 5024, 5824, 7024, 7824, 9024, 9424, 9824

versucht man hierunter die mit einem Stern bezeichneten Quadratzahlen, so erhält man Summen, deren gemeinschaftliche Anfangsziffern 181, und deren Endziffern nach der Ordnung

0400+6201=6601, 1600+6201=7801, 3600+6201=9801*, 1024+6201=7225

sind, unter denen 1819801=(1349)² eine Quadratzahl ist, man hat sonach $y=\sqrt{3600}=60$, $x=1349$, also $x+y=1409$, $x-y=1289$, daher $N=1816261=1289\cdot1409$.

II. Sei N=2237791, von dieser Zahl sagt Euler in dem Werke: Novi Commentarii Acad. scient. Petrop. Tomo IX pag. 17. „Ita si quis quaerat, utrum hic numerus 2237791 primus sit, nec ne? divisionem per omnes numeros primos usque ad 1496 tentare cogitur, hocque labore maxime taedioso suscepto tandem divisionem per 1481 succedere deprehendet.“

Die mit 7791 additiv kongruenten Endungen sind:

0225*, 0625*, 1025, 2225, 3025*, 4225*, 5025, 6225, 7025, 8225, 9025*
0609, 1809, 2209*, 2609, 3809, 4609, 5809, 6609, 7809, 8609, 9809

nun ist 2317791+0225=2238016=(1496)², somit $y=\sqrt{225}=15$, $x=1496$, und $x+y=1511$, $x-y=1481$ die gesuchten Faktoren dieser Zahl.

III. Sei N=909191 eine Zahl, deren Theiler Franz Graf von Schafgotsch in den Abhandlungen der böhm. Ges. der Wiss. auf das Jahr 1786 Seite 156 u. d. f. untersucht hat. Dieser geschickte Mathematiker bringt die Zahl auf die Form $5Nx^2+1=y^2$, und berechnet darnach x in 59, y in 62 Ziffern so:

x=37074 886179 336725 828048 723088 160784 804513 634289 660763 498655
y=79 048274 170565 173862 934965 626849 290055 118667 858724 583379
760864

hierauf wird zwischen y+1 und 5N der größte gemeinschaftliche Theiler 1315=5.263 gesucht und hierdurch ergibt sich 263 als Faktor der Zahl 909191, welche daher wegen der Persönlichkeit des Rechners und dem überaus weitläufigen Wege, auf dem das Ziel erreicht wurde, historisch merkwürdig ist. Nach dem §. 30 gegebenen Verfahren findet man die Theiler dieser Zahl so: die mit 9191 additiv kongruenten Endungen sind

0025*, 1225*, 2025*, 3225, 4025, 5225, 5625*, 6025, 7225*, 8025, 9225·
0409, 0809, 1209, 2409, 3209, 4409, 5209, 6409, 7209, 8409, 9209

da die mit einem Stern bezeichneten Quadratzahlen zu der Zahl N addirt, keine Quadratzahl zur Summe geben, so können wir mit den kon=

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gruenten Endungen der zweiten Gruppe die Rechnung beginnen. Nun ergeben sich die Zahlen, welche der quadratischen Endung 0409 zugehören, 347, 1597, 3403, 4653, ihre vollständigen Quadrate haben zu Vorziffern 12, 255, 1158, 2165, und die Endziffern 0409 gemeinschaftlich: addirt man diese Zahlen nach einander zu 90, so findet man $12+90=102$. $255+90=345^*$, $1158+90=1248$, $2165+90=2255$, und die Endziffern, welche diesen Summen gemeinschaftlich angehören, sind 9600: aber die Zahl $3459600=(1860)^2$ ist wieder eine Quadratzahl, sonach hat man $x=1860$, $y=1597$, und $x+y=3457$, $x-y=263$ sind die gesuchten Faktoren der Zahl 909191.

IV. Sei $N=5157250547$: die mit den Endziffern 0547 additiv kongruenten Endungen sind: 0049*, 0129, 0209, 0289*, 0369 u. s. f. addirt man die Endung 0049 zu der Zahl N, so folgt

$$5157250547+0049=51572596=(71814)^2$$

demnach ist $x=71814$, $y=7$, und $x+y=71821$, $x-y=71807$ sind die Faktoren der gegebenen Zahl.

## §. 35.

Wie aber die unter den kongruenten Endungen einer Zahl vorkommenden Quadratzahlen der Bedingung nicht Genüge leisten, daß sie mit der Zahl N zur Summe eine Quadratzahl geben, so muß die Prüfung auf sämmtliche Zahlen ausgedehnt werden, welche den kongruenten Endungen in der Tafel 10 angehören. Um die Rechnung zu vereinfachen, schreibe man 1. die gefundenen kongruenten Endungen unter einander, und daneben in einer zweiten Spalte die ihnen zugehörigen Zahlen bis zu einer Grenze, welche $2\sqrt{N}$, $3\sqrt{N}$, $4\sqrt{N}$ sein mag, suche 2. die Vorziffern ihrer Quadrate in der Tafel und schreibe dieselben in einer dritten Spalte, als Werthe von $y^2$, sodann addire 3. die kongruenten Endungen zu den 4 Endziffern der Zahl, so erhält man die Endziffern der Werthe von $x^2$, die man in die letzte Spalte einträgt und 4. addire die Vorziffern der Zahl N zu den Vorziffern von $y^2$, und schreibe die Summen in einer vierten Spalte. Wo in der Endung von $x^2$ (letzte Spalte) die Anfangsziffer von 9 in 0 übergeht, sind die Vorziffern der Zahl N um 1 zu vergrößern, damit die Vorziffern im Ausdrucke $N+y^2=x^2$ den richtigen Werth erhalten. Da bei den auf 3 oder 7 endigenden Zahlen die kongruenten Endungen nach der Differenz 80 aufsteigen, so wird man die ihnen korrespondirenden Endungen von $x^2$, sofort bilden können, wenn man die zuerst bestimmte Endung stufenweise um 80 vergrößert.

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## Beiſpiele.

Sei N=997331, welche Zahl Hofrath Gauß in dem ſchon angeführten Werke Seite 581 gewählt hat; ſo ergeben ſich die mit 7331 kongruenten Endungen

0769, 1569, 2769, 3569, 4769, 5169, 5569, 6769, 7569, 8769, 9569

und ihre Summen mit der Zahl 7331

8100, 8900, 0100, 0900, 2100, 2500, 2900, 4100, 4900 6100, 6900

| Kong. Endg. | Zugehörige Werthe von y | Zugehörige Werthe von $y^2$ | Zugehörige Werthe von $x^2$ | End. von $x^2$ |
|---|---|---|---|---|
| 0769 | 1863 1887 3113 | 347 356 969 | 416 455 1068 | 8100 |
| 1569 | 1087 2337 2663 | 118 546 709 | 217 645 808 | 8900 |
| 2769 | 113 1137 3863* | 1 129 1492* | 101 229 1592* | 0100 |
| 3569 | 337 913 4087 | 11 83 1670 | 111 183 1770 | 0900 |
| 4769 | 863 2113 2887 | 74 446 833 | 174 546 933 | 2100 |
| 5169 | 1263 2487 2513 | 159 618 631 | 259 718 731 | 2500 |
| 5569 | 1663 2087 2917 | 276 435 850 | 376 535 950 | 2900 |
| 6769 | 887 2137 2863 | 78 456 819 | 178 556 919 | 4100 |
| 7569 | 87 1337 3663 | 0 178 1341 | 100 278 1441 | 4900 |
| 8769 | 137 1113 3887 | 1 123 1510 | 101 223 1610 | 6100 |
| 9569 | 663 1913 3087 | 43 365 952 | 143 465 1052 | 6900 |

man hat alſo 15920100=(3990)², folglich x=3990, y=3863, und x+y=7853, x−y=127 ſind die geſuchten Faktoren.

II. Sei N=51039487, ſo ſteht die ganze Rechnung ſo, wenn man nur die einer kongruenten Endung zugehörenden kleinſten Zahlen, des Raumes wegen, wegläßt:

| Kong. Endg. | Werthe von y | Vorziffern von $y^2$ | Vorziffern von $x^2$ | Endg. von $x^2$ |
|---|---|---|---|---|
| 0019 | 1257 3743 4993 5007 | 158 1401 2493 2507 | 5261 6504 7596 7610 | 9536 |
| 0129 | 2377 2623 3873 6127 | 565 688 1500 3754 | 5668 5791 6603 8857 | 9616 |
| 0209 | 2047 2953 3297 6703 | 419 872 1087 4493 | 5522 5975 6190 9596 | 9696 |
| 0289 | 1233 3767 4983 5017 | 152 1419 2483 2517 | 5255 6522 7586 7620 | 9776 |
| 0369 | 2287 2713 3537 6463 | 523 736 1251 4177 | 5626 5839 6354 9280 | 9856 |
| 0449 | 1393 3607 4857 5143 | 194 1301 2359 2644 | 5297 6404 7462 7748 | 9936 |
| 0529 | 1277 3723 4973 5027 | 163 1386 2473 2527 | 5267 6490 7577 7631 | 0016 |
| 0609 | 1353 3647 4897 5103 | 183 1330 2398 2604 | 5287 6434 7502 7708 | 0096 |
| 0689 | 633 4367 4383 5617 | 40 1907 1921 3155 | 5144 7011 7025 8259 | 0176 |
| 0769 | 1887 3113 3137 6863 | 356 969 984 4710 | 5460 6073 6088 9814 | 0256 |
| 0849 | 2207 2793 3457 6543 | 487 780 1195 4281 | 5591 5884 6299 9385 | 0336 |
| 0929 | 2423 2577 3673 6327 | 587 664 1349 4003 | 5691 5768 6453 9107 | 0416 |
| 1009 | 1497 3503 4753 5247* | 224 1227 2259 2753* | 5328 6331 7363 7857* | 0496 |

es iſt alſo x²=78570496=(8864)², alſo y=5247, und x+y=14111, x−y=3617 die geſuchten Faktoren der Zahl: da aber 14111=103.137, ſo folgt 51039487=103.137.3617.



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## §. 36.

Ganz eben so verfährt man, wenn zum Behufe der Zerlegung einer Zahl in ihre Faktoren, diese Zahl als Summe zweier Quadratzahlen dargestellt wird, indem man zu ihren vier Endziffern nun subtraktiv kongruente Endungen aufsucht: nur darf die gegebene Zahl oder aber einer ihrer Theiler die Form $4n+3$ nicht besitzen.

Die Grenze, bis zu welcher die den kongruenten Endungen der Zahl N zugehörigen Zahlen zu untersuchen kommen, sind hier viel enger gesteckt, als bei den additiv kongruenten Endungen: denn man hat in der Gleichung $N=x^2+y^2$, schon $x=y$ für $y=\sqrt{{}^1/_2}N$. Auch ist ersichtlich, daß man in dieser Gleichung x mit y vertauschen kann, ohne sie zu stören, welches darauf hinauslauft, daß man in den vier Gruppen kongruenter Endungen, welche Zahlen, die auf 1 oder 9 endigen, zukommen, sofort nur zwei Gruppen derselben, deren eine mit ungeraden von der Zahl 25 verschiedenen Endungen behaftet ist, zu untersuchen hat, um alle quadratischen Formen, deren eine Zahl fähig ist, zu erhalten. Daß man bei der Subtraktion der Vorziffer von $y^2$ von den gleichnamigen Vorziffern der Zahl N, diese letzteren um 1 zu vermindern habe, wenn die stets abnehmenden Anfangsziffern in der Endung von $x^2$ von 0 zu 9 oder 8 aufsteigen, ist an sich klar.

### Beispiele.

1. Sei $N=70639807$, durch die Division mit 7 ergibt sich sogleich $70639807=7.10091401$, und man hat blos die letztere Zahl in Faktoren zu zerlegen: die mit 1401 subtraktiv kongruenten Endungen, deren Endziffern von 00 und 25 verschieden sind, findet man

1001 1401 1801 3001 3801 5001 5801 7001 7801 9001 9801
0176 1376 2176 3376 4176 5376 5776 6176 7376 8176 9376

da $\sqrt{{}^1/_2}N=\sqrt{{}^1/_2}(10091401)=2246$ ist, so wird man bei den diesen Endungen zugehörigen Zahlen nur diejenigen prüfen, welche diese Grenze nicht übersteigen, dies gibt folgende Rechnung:

| Kong End. | y | $y^2$ | $x^2$ | End. v. $x^2$ | Kong End. | y | $y^2$ | $x^2$ | End. v. $x^2$ |
|---|---|---|---|---|---|---|---|---|---|
| 1001 | 501 749 | 25 56 | 984 953 | 0400 | 0176 | 224 | 5 | 1004 | 1225 |
| 1401 | 549 701 | 30 49 | 979 960 | 0000 | 1376 | 376 2124 | 14 451 | 995 558 | 0025 |
| 1801 | 349 901 | 12 81 | 996 927 | 9600 | 2176 | 776 1724 | 60 297 | 948 711 | 9225 |
| 3001 | 251 1501 | 6 225 | 1002 783 | 8400 | 3376 | 1124 1376 | 126 189 | 882 819 | 8025 |
| 3801 | 651 1901 | 42 361 | 966 647 | 7600 | 4176 | 724 1776 | 52 315 | 956 693 | 7225 |
| 5001 | 1251* | 156 | 852* | 6400 | 5376 | 124 | 1 | 1007 | 6025 |
| 5801 | 1651 2099 | 272 440 | 736 568 | 5600 | 5776 | 76 | 0 | 1008 | 5625 |
| 7001 | 1499 | 224 | 774 | 4400 | 6176 | 276 2224 | 7 494 | 1001 514 | 5225 |
| 7801 | 1099 | 120 | 888 | 3600 | 7376 | 876 1624 | 76 263 | 928 745 | 4025 |
| 9001 | 499 1749 | 24 305 | 984 703 | 2400 | 8176 | 1224 1276 | 149 162 | 859 846 | 3225 |
| 9801 | 99 1349 | 0 181 | 917 | 1600 | 9376 | 624 1876 | 38 351 | 970 657 | 2025 |

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sonach ist, da 8526400=(2920)² gefunden worden, die Zahl 10091401=1251²+2920², und weil diese Zahl nur einmal als Summe zweier Quadratzahlen erscheint, so ist sie (§. 18) eine Primzahl. *)

II. Sei N=5187829, die subtraktiv kongruenten Endungen sind hier 0100, 0900, 2100, 2500, 2900, 4100, 4900, 6100, 6900, 8100, 8900 nimmt man ihre Ergänzungen zu den Endziffern 7829 der Zahl, und prüft blos jene Zahlen, welche kleiner sind als $\sqrt{1/2}N=1610$, so erhält man folgende Rechnung:

| Kong. End. | y | y² | x² | End. v. x² |
|---|---|---|---|---|
| 1129 | 1123 | 126 | 392 | 6900 |
| 1729 | 1527* | 233 | 285* | 6100 |
| 2929 | 577 673 | 33 45 | 485 473 | 4900 |
| 3729 | 473 | 22 | 496 | 4100 |
| 4929 | 1423 | 202 | 306 | 2900 |
| 5329 | 73 1177* | 0 338 | 518 380* | 2500 |
| 5729 | 1223 | 149 | 369 | 2100 |
| 6929 | 327 1577 | 10 248 | 508 270 | 0900 |
| 7729 | 527 | 27 | 491 | 0100 |
| 8929 | 423 | 17 | 500 | 8900 |
| 9729 | 223 1473 | 4 216 | 513 301 | 8100 |

da nun 2856100=(1690)², und 3802500=(1950)²; so hat man zwei Werthe von x, nämlich x=1690 und x=1950, für welche y=1527, und y=1177 ist; man erhält sonach die zwei quadratischen Formen der Zahl

$$5187829=1690^2+1527^2=1950^2+1177^2$$

woraus sich nach §. 29 die Faktoren 1901 und 2729 ergeben, oder es ist

$$5187829=1901.2729.$$

## §. 37.

Betrachtet man die Methode, deren Umrisse hier gegeben wurden mit Aufmerksamkeit, so zeigt sich bei ihrer Vergleichung mit den von Gauß und Legendre erfundenen, daß sie, so wie sie jetzt schon ist, viel schneller zur Bestimmung der Faktoren führet, als jene: aber sie ist noch einer Vereinfachung fähig, sobald man unter den verschiedenen Zahlen als muthmaßlichen Werthen von x und y, diejenigen wird angeben können, welche ihren wirklichen Werthen näher stehen, wozu eine

*) Die Zahl 10091401 ist die größte Primzahl, welche auf eine direkte Weise bisher bestimmt wurde. Siehe Essai sur la theorie des nombres. Par A. M. Legendre 3e ed. Paris, wo die nicht leichte Rechnung 3 Quartseiten einnimmt.



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weiter ausgeführte Tafel der Gleichungen $N=x^2\pm y^2$, $N=2x^2\pm y^2$, $N=3x^2\pm y^2$, $N=5x^2\pm y^2$, allem Anſcheine nach, verhelfen wird. Auf eine ähnliche Weiſe ließen ſich auch die Kubikzahlen anwenden, um eine gegebene Zahl in ihre Faktoren zu zerlegen; indem man die kubiſch kongruenten Endungen der Endziffern einer Zahl in eine Tafel bringt, und durch eine zweite Tafel die Zahlen angibt, welche einer gegebenen kubiſchen Endung angehören. Allein die dieſer Schrift geſteckten Grenzen erlauben es nicht, dieſen Gegenſtand, ſo wie auch manche Anwendungen der Tafel der Quadrat- und Kubikzahlen z. B. auf die Auflöſung der numeriſchen Gleichungen mittelſt der Gräffe'ſchen Methode, und durch die Kardan'ſche Formel noch weiter zu verfolgen.

## Verbeſſerungen.

Seite 427 Zeile 6 von unten ſtatt $\beta$ und B lies $\beta$.
— 428 Zeile 15 ſtatt $\alpha^4$ lies $\alpha^2$.
— 440 im §. 18 überall ſtatt $a^2$, $b^2$, $c^2$, $d^2$ zu leſen a, b, c, d.
— 445 §. 22 ſtatt $bx^3$ lies $by^3$.

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MAY 4 1887

AUG 2 1888

AUG 9 1

DUE NOV 17 1924

DUE JUL 23 1931

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Tafeln der quadrat- und kubikzahlen
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